



QY 301 ACCCTGCAATTGTGCGCTTGAAGAGCTGCTGTGCTTTTGGGCGCTTGGGGGACAA 360  
DB 396 ACCCTGCAATTGTGCGCTTGAAGAGCTGCTGTGCTTTTGGGCGCTTGGGGGACAA 455  
QY 361 CTCATGCGGAGCTGCGAGACCTTCACTTCACTTCTTGTATGAGTCACTTGTATCAT 420  
DB 456 CTCATGCGGAGCTGCGAGACCTTCACTTCTTGTATGAGTCACTTGTATCAT 515  
QY 421 GAGCTGTGAGAGATGAGTGGCTTCAAGAGGCGCTTGAAGGCGCTTGAAGGCGCTTGA 480  
DB 516 GAGCTGTGAGAGATGAGTGGCTTCAAGAGGCGCTTGAAGGCGCTTGAAGGCGCTTGA 575  
QY 481 CAGGGGAGCGCTTGGCCAGAGAGCTGCTGAGACGAGCTGAGAGAGGCGAGCGCTTACAC 540  
DB 576 CAGGGGAGCGCTTGGCCAGAGAGCTGCTGAGACGAGCTGAGAGAGGCGAGCGCTTACAC 635  
QY 541 CCGGAGAGCTGTGCGGAGAGCGCGCTTGGCGAGCTGTGAGCTTCACTTCACTTCACT 600  
DB 636 CCGGAGAGCTGTGCGGAGAGCGCGCTTGGCGAGCTGTGAGCTTCACTTCACTTCACT 695  
QY 601 ACTGAGCTTCTGAGAGCTCCCACTCTGAGAGCTGAGAGAGTGAAGTGAAGTGAAGT 660  
DB 696 ACTGAGCTTCTGAGAGCTCCCACTCTGAGAGCTGAGAGAGTGAAGTGAAGTGAAGT 755  
QY 661 CCCAGTATGAGAGCTTTCGCCAGAGAGTGTGTTTGTGAGTGAAGAGAGGAGATCCC 720  
DB 756 CCCAGTATGAGAGCTTTCGCCAGAGAGTGTGTTTGTGAGTGAAGAGAGGAGATCCC 815  
QY 721 AAGCAGGAGAGCGGAGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 780  
DB 816 AAGCAGGAGAGCGGAGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 875  
QY 781 CTCGAGGAG 840  
DB 876 CTCGAGGAG 935  
QY 841 GACATCTCATCAACCGGAGAGCTCAACGAGGCGCTCAAGAGTGAAGTGAAGTGAAGT 900  
DB 936 GACATCTCATCAACCGGAGAGCTCAACGAGGCGCTCAAGAGTGAAGTGAAGTGAAGT 995  
QY 901 GGGGTCTTCAAGTCTTCTGCGCTTCAAGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAG 960  
DB 996 GGGGTCTTCAAGTCTTCTGCGCTTCAAGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAG 1055  
QY 961 AACGAGCAATGAGCTTCAAGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020  
DB 1056 AACGAGCAATGAGCTTCAAGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1115  
QY 1021 ATCTGAGAGAGAGTGTGAGTGGCGGAGCTGCTTCAAGAGTGTGAGAGAGAGAGAG 1080  
DB 1116 ATCTGAGAGAGAGTGTGAGTGGCGGAGCTGCTTCAAGAGTGTGAGAGAGAGAGAG 1175  
QY 1081 TGGAGAGAGAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1116  
DB 1176 TGGAGAGAGAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1211

RESULT 2  
US-09-570-593-4

/ Sequence 4, Application US/09570593  
/ Patent No. 6566063  
/ GENERAL INFORMATION:  
/ APPLICANT: Kaufmann, Joerg  
/ APPLICANT: Xun, Hong  
/ APPLICANT: Hartwe, Greg  
/ TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
/ FILE REFERENCE: 2300-1556  
/ CURRENT APPLICATION NUMBER: US/09/570, 593  
/ PRIOR FILING DATE: 2000-05-12  
/ PRIOR APPLICATION NUMBER: 60/134,112  
/ PRIOR FILING DATE: 1999-05-14

/ NUMBER OF SEQ ID NOS: 13  
/ SOFTWARE: FastSeq for Windows Version 4.0  
/ SEQ ID NO 4  
/ LENGTH: 1907  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
/ FEATURE:  
/ NAME/KEY: CDS  
/ LOCATION: (96)...(1211)  
/ OTHER INFORMATION: Human epithelial-restricted with serine box (ESB)  
/ OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 100.0%; Score 1116; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 7.6e-291;  
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCTGCAACCTGTGAGATTTAGCAATTTTATGCACTTCACTGAGTGAAGTGAAGTGAAGT 60  
DB 96 ATGCTGCAACCTGTGAGATTTAGCAATTTTATGCACTTCACTGAGTGAAGTGAAGTGAAGT 155  
QY 61 TCGAGAGAGCTCAACCTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120  
DB 156 TCGAGAGAGCTCAACCTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 215  
QY 121 GTAATGAGCTGAGCAACCTGAGATGTGATGAGAGTGAAGAGAGAGAGAGAGAGAGAGAG 180  
DB 216 GTAATGAGCTGAGCAACCTGAGATGTGATGAGAGTGAAGAGAGAGAGAGAGAGAGAGAG 275  
QY 181 GGGGAAACAGCCCACTGCTGTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
DB 276 GGGGAAACAGCCCACTGCTGTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 335  
QY 241 GAG 300  
DB 336 GAG 395  
QY 301 ACCCTGCAATTGTGCGCTTGAAGAGCTGCTGTGCTTTTGGGCGCTTGGGGGACAA 360  
DB 396 ACCCTGCAATTGTGCGCTTGAAGAGCTGCTGTGCTTTTGGGCGCTTGGGGGACAA 455  
QY 361 CTCATGCGGAGCTGCGAGACCTTCACTTCACTTCTTGTATGAGTCACTTGTATCAT 420  
DB 456 CTCATGCGGAGCTGCGAGACCTTCACTTCTTGTATGAGTCACTTGTATCAT 515  
QY 421 GAGCTGTGAGAGATGAGTGGCTTCAAGAGGCGCTTGAAGGCGCTTGAAGGCGCTTGA 480  
DB 516 GAGCTGTGAGAGATGAGTGGCTTCAAGAGGCGCTTGAAGGCGCTTGAAGGCGCTTGA 575  
QY 481 CAGGGGAGCGCTTGGCCAGAGAGCTGCTGAGACGAGCTGAGAGAGGCGAGCGCTTACAC 540  
DB 576 CAGGGGAGCGCTTGGCCAGAGAGCTGCTGAGACGAGCTGAGAGAGGCGAGCGCTTACAC 635  
QY 541 CCGGAGAGCTGTGCGGAGAGCGCGCTTGGCGAGCTGTGAGCTTCACTTCACTTCACT 600  
DB 636 CCGGAGAGCTGTGCGGAGAGCGCGCTTGGCGAGCTGTGAGCTTCACTTCACTTCACT 695  
QY 601 ACTGAGCTTCTGAGAGCTCCCACTCTGAGAGCTGAGAGAGTGAAGTGAAGTGAAGT 660  
DB 696 ACTGAGCTTCTGAGAGCTCCCACTCTGAGAGCTGAGAGAGTGAAGTGAAGTGAAGT 755  
QY 661 CCCAGTATGAGAGCTTTCGCCAGAGAGTGTGTTTGTGAGTGAAGAGAGGAGATCCC 720  
DB 756 CCCAGTATGAGAGCTTTCGCCAGAGAGTGTGTTTGTGAGTGAAGAGAGGAGATCCC 815  
QY 721 AAGCAGGAGAGCGGAGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 780  
DB 816 AAGCAGGAGAGCGGAGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 875  
QY 781 CTCGAGGAG 840  
DB 876 CTCGAGGAG 935

QY 841 GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAGTGGAGATCGGATGAA 900  
DB 936 GAAATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAGTGGAGATCGGATGAA 995  
QY 901 GGGCTCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAAG 960  
DB 996 GGGCTCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAAG 1055  
QY 961 AAGAGCAATGATCTTACGAGAGCTGAGCGGGCCATGAGTGAATCTTCAAAAGGGAG 1020  
DB 1056 AACAGAGCAATGATCTTACGAGAGCTGAGCGGGCCATGAGTGAATCTTCAAAAGGGAG 1115  
QY 1021 ATCTGTAACGAGGTGATGGCGCGGAGCTGTCTACAGATTGGCAAACTCAAGCGG 1080  
DB 1116 ATCTGTAACGAGGTGATGGCGCGGAGCTGTCTACAGATTGGCAAACTCAAGCGG 1175  
QY 1081 TGGAGAGAGAGAGGTTCTTCCAGAGTGGAGCTGA 1116  
DB 1176 TGGAGAGAGAGAGGTTCTTCCAGAGTGGAGCTGA 1211

## RESULT 3

US-08-746-789A-1  
Sequence 1, Application US/08746789A  
Patent No. 5789200  
GENERAL INFORMATION:  
APPLICANT: Ismail Kola, Martin J. Tyms, Christine Debouck  
TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, E1F3  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road, P.O. Box 1539  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
COMPUTER: IBM 486  
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
SOFTWARE: MICROSOFT WORD  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/746,789A  
FILING DATE: No. 5789200ember 15, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
ATTORNEY/AGENT INFORMATION:  
FILING DATE:  
NAME: William T. Han  
REGISTRATION NUMBER: 34,344  
REFERENCE/DOCKET NUMBER: ATG 50024  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610 270 5219  
TELEFAX: 610 270 4026  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1920  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: No  
US-08-746-789A-1

Query Match 99.4%; Score 1109.6; DB 1; Length 1920;  
Best Local Similarity 99.6%; Pred. No. 4e-289;  
Matches 1112; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGATTTAGCAACATTTTATGCACTACTTCACTGCGATGACG 60  
DB 115 ATGGCTGCAACCTGTGATTTAGCAACATTTTATGCACTACTTCACTGCGATGACG 174  
QY 61 TCGAGAGACCTCCACCTGTGTTCCCTGCTGCGACCTTTGGGGCGGATGACTTG 120

DB 175 TCGAGAGACCTCCACCTGTGCTGTGTTCCCTGCTGCGACCTTTGGGGCGGATGACTTG 234  
QY 121 GATCTGACCTTGAAGCAACCCCAAGATGTATTTGAGAGGATCAAGAAAGCCAGCTGTG 180  
DB 235 GATCTGACCTTGAAGCAACCCCAAGATGTATTTGAGAGGATCAAGAAAGCCAGCTGTG 294  
QY 181 GGGGAACAGCCCAAGTTCTGTGCAAGAGCAAGGTTCTGSACTGATGACTACCAAGTG 240  
DB 295 GGGGAACAGCCCAAGTTCTGTGCAAGAGCAAGGTTCTGSACTGATGACTACCAAGTG 354  
QY 241 GAGAAAGCAAGTACGACGCAAGCCGCAATTGACTTTCAGATGTGACATGATGAGCGCC 300  
DB 355 GAGAAAGCAAGTACGACGCAAGCCGCAATTGACTTTCAGATGTGACATGATGAGCGCC 414  
QY 301 ACCCTTGAATTTGCTGCTTGAAGAGCTGCTGTGCTTTGGGGCTTGGGGGACCA 360  
DB 415 ACCCTTGAATTTGCTGCTTGAAGAGCTGCTGTGCTTTGGGGCTTGGGGGACCA 474  
QY 361 CTCATGCGCCAGCTGCGAGACCTTCCAGCTCTTGTATGAGCTCAGTTGATCATTT 420  
DB 475 CTCATGCGCCAGCTGCGAGACCTTCCAGCTCTTGTATGAGCTCAGTTGATCATTT 534  
QY 421 GAGCTGCTGAGAGAGATGAGATGAGCTTTCAGAGAGCCCTAGACCAGGGCCCTTTGAC 480  
DB 535 GAGCTGCTGAGAGAGATGAGATGAGCTTTCAGAGAGCCCTAGACCAGGGCCCTTTGAC 594  
QY 481 CAGGAGACCCCTTTGGCCCAAGAGCTGTGAGAGAGCTGACAGAGCTGACAGAGCCCTTACAC 540  
DB 595 CAGGAGACCCCTTTGGCCCAAGAGCTGTGAGAGAGCTGACAGAGCTGACAGAGCCCTTACAC 654  
QY 541 CCGGAGAGCTGTGAG 600  
DB 655 CCGGAGAGCTGTGAG 714  
QY 601 ACTGATGCTTCTCGAGCTCCCACTCTCTGAGACTCCGAGTGAAGTGAAGTGAAGTGAAGT 660  
DB 715 ACTGATGCTTCTCGAGCTCCCACTCTCTGAGACTCCGAGTGAAGTGAAGTGAAGTGAAGT 774  
QY 661 CCCATGATGAGCAAGCTTCTTCCAGAGATGTTTCTGATCTGCAAGAAAGGGGATGCC 720  
DB 775 CCCATGATGAGCAAGCTTCTTCCAGAGATGTTTCTGATCTGCAAGAAAGGGGATGCC 834  
QY 721 AAGCAAGGAG 780  
DB 835 AAGCAAGGAG 894  
QY 781 CTCGAGGGCAAG 840  
DB 895 CTCGAGGGCAAG 954  
QY 841 GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAGTGGAGATCGGATGAA 900  
DB 955 GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAGTGGAGATCGGATGAA 1014  
QY 901 GGGCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAAG 960  
DB 1015 GGGCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAAG 1074  
QY 961 AACAGCAATGATCTTACGAGAGCTGAGCGGGCCATGAGTGAATCTTCAAAAGGGAG 1020  
DB 1075 AACAGCAATGATCTTACGAGAGCTGAGCGGGCCATGAGTGAATCTTCAAAAGGGAG 1134  
QY 1021 ATCTGTAACGAGGTGATGGCGCGGAGCTGTCTACAGATTGGCAAACTCAAGCGG 1080  
DB 1135 ATCTGTAACGAGGTGATGGCGCGGAGCTGTCTACAGATTGGCAAACTCAAGCGG 1194  
QY 1081 TGGAGAGAGAGAGGTTCTTCCAGAGTGGAGCTGA 1116  
DB 1195 TGGAGAGAGAGAGGTTCTTCCAGAGTGGAGCTGA 1230

RESULT 4







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DB 122 TGGCAAGCTCTTCCCGCAGCTGTTTCTGTGACTGCAAGAGGGGATCCAGACGG 181
QY 729 GAAGCGGAAACGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTGTCTCGAGGG 788
DB 182 GAAGCGGAAACGAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 241
QY 789 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 848
DB 242 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 301
QY 849 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 908
DB 302 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 361
QY 909 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGAGGCGCAAAAGAAAGACAGCA 968
DB 362 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGAGGCGCAAAAGAAAGACAGCA 421
QY 969 CATGACCTACGAAAGCTGAGCGCGGCAATGAGGTACTACTACAAAGGAGATCTTGA 1028
DB 422 CATGACCTACGAAAGCTGAGCGCGGCAATGAGGTACTACTACAAAGGAGATCTTGA 481
QY 1029 ACGGATGATGCGCGGCGACT 1049
DB 482 ACGGATGATGCGCGGCGACT 502
```

## RESULT 9

```
US-09-834-759-282
; Sequence 282, Application US/09834759
; Patent No. 6680197
; GENERAL INFORMATION:
; APPLICANT: Jjiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jianshun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-834-759-282
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Query Match 44.7%; Score 499.4; DB 4; Length 502;
Best Local Similarity 99.8%; Pred. No. 5.3e-125;
Matches 500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 549 CTGTGGCGCAGAGCGCCCTCTCCCTGAGCTCTGAGCTCTCCACGCGAGGACTGTGC 608
DB 2 CTGTGGCGCAGAGCGCCCTCTCCCTGAGCTCTGAGCTCTCCACGCGAGGACTGTGC 61
QY 609 TTCTCGAGCTCCCACTCTCTCAAGCTCCGCTGGAAGTGAAGTGAAGTGAAGTGAAGTGA 668
DB 62 TTCTCGAGCTCCCACTCTCTCAAGCTCCGCTGGAAGTGAAGTGAAGTGAAGTGAAGTGA 121
QY 669 TGGCAAGCTCTTCCCGCAGAGTGTGTTTGTGACTGCAAGAGGAGATCCCAAGCAGG 728
DB 122 TGGCAAGCTCTTCCCGCAGAGTGTGTTTGTGACTGCAAGAGGAGATCCCAAGCAGG 181
QY 729 GAAGCGGAAACGAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 788
DB 182 GAAGCGGAAACGAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 241
QY 789 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 848
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```
DB 242 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 301
QY 849 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 908
DB 302 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 361
QY 909 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGAGGCGCAAAAGAAAGACAGCA 968
DB 362 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGAGGCGCAAAAGAAAGACAGCA 421
QY 969 CATGACCTACGAAAGCTGAGCGCGGCAATGAGGTACTACTACAAAGGAGATCTTGA 1028
DB 422 CATGACCTACGAAAGCTGAGCGCGGCAATGAGGTACTACTACAAAGGAGATCTTGA 481
QY 1029 ACGGATGATGCGCGGCGACT 1049
DB 482 ACGGATGATGCGCGGCGACT 502
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## RESULT 10

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US-09-590-751A-282
; Sequence 282, Application US/09590751A
; Patent No. 6756477
; GENERAL INFORMATION:
; APPLICANT: Yugu, Jjiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jianshun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C6
; CURRENT APPLICATION NUMBER: US/09/590,751A
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-590-751A-282
```

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Query Match 44.7%; Score 499.4; DB 4; Length 502;
Best Local Similarity 99.8%; Pred. No. 5.3e-125;
Matches 500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 549 CTGTGGCGCAGAGCGCCCTCTCCCTGAGCTCTGAGCTCTCCACGCGAGGACTGTGC 608
DB 2 CTGTGGCGCAGAGCGCCCTCTCCCTGAGCTCTGAGCTCTCCACGCGAGGACTGTGC 61
QY 609 TTCTCGAGCTCCCACTCTCTCAAGCTCCGCTGGAAGTGAAGTGAAGTGAAGTGAAGTGA 668
DB 62 TTCTCGAGCTCCCACTCTCTCAAGCTCCGCTGGAAGTGAAGTGAAGTGAAGTGAAGTGA 121
QY 669 TGGCAAGCTCTTCCCGCAGAGTGTGTTTGTGACTGCAAGAGGAGATCCCAAGCAGG 728
DB 122 TGGCAAGCTCTTCCCGCAGAGTGTGTTTGTGACTGCAAGAGGAGATCCCAAGCAGG 181
QY 729 GAAGCGGAAACGAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 788
DB 182 GAAGCGGAAACGAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 241
QY 789 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 848
DB 242 CAAGAAAGCAAGCAAGCGCGCCCGGAAAGTGTAGCAAGAGTACTGTCTCGAGGG 301
QY 849 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 908
DB 302 CATCCACCGGAGCTCAAGAGGCTCTATGAAGTGGGAAATTCGGATGAAGCGCTT 361
QY 909 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGAGGCGCAAAAGAAAGACAGCA 968
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Db 362 CAAGTTCCTGCGCTCCGAGGCTGTGGCCCACTATGAGGCGCAAAAGAAAGAACAGCA 421  
Qy 969 CATGACTTACAGAGAGTGAAGCGGCGCATAGAGTACTACTAAGAAAGGAGATCTCTGA 1028  
Db 422 CATGACTTACAGAGAGTGAAGCGGCGCATAGAGTACTACTAAGAAAGGAGATCTCTGA 481  
Qy 1029 ACGGTGATGAGCGCGGCGACT 1049  
Db 482 ACGGTGATGAGCGGCGGCGACT 502

## RESULT 11

US-09-020-956-44/C  
; Sequence 44, Application US/09020956  
; Patent No. 6261562  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/020,956  
; FILING DATE: 09-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; US-09-020-956-44

Query Match 15.6%; Score 173.8; DB 3; Length 852;  
Best Local Similarity 69.7%; Pred. No. 3.3e-37;  
Matches 225; Conservative 0; Mismatches 102; Indels 0; Gaps 0;  
Qy 758 TGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAAGCAAGCGGCCCAAGAGCA 817  
Db 450 TGAAAAAGAGCAAGACCCCTGCGCAAGTGCACACCAAAAAGCAACCAACCGAGAGGGA 391  
Qy 818 CCACCTGTGGAGTTTCATCCGGACATCTCTATCCACCCGAGCTCAACGAGGGCTCA 877  
Db 390 CTCACCTTATGGGAATTCATCCGGACATCTCTTGAACCCAGACAAGAACCCAGATTAA 331  
Qy 878 TGAAGTGGAGAAATCGGCATGAGAGGCGTCTTCAAGTCCGCGCTCCGAGCGTGGCCC 937  
Db 330 TAAATGGAGAACCGCATCTGAGGGCGTCTTCAAGTTCTTGAATCAAGAGCGAGTGGCTC 271  
Qy 938 AACTATGGGCGCAAAAGAAAGAAAGCAAGCAATGACCTTACGAGAAAGCTGAGCGGCGCA 997  
Db 270 AGCTATGGGGTAAAGAAAGAAAGCAAGCAAGCATGACCTTATGAAGAGCTCAGCGGAGCTA 211

Qy 998 TGAGTACTACTACAAACCGAGATCTGGAACGGGTGATGGCGGCGACTCGTCTACA 1057  
Db 210 TGAGATATTACTACAAAGAAAGAAATTTCTGAGCGTGTGATGAGCAAGACTGTATATA 151  
Qy 1058 AGTTTGCAAAAATCTCAAGCGGCTGGAGAGAGAA 1094  
Db 150 AATTTGGAAGATATGCCGAGATGGAGAGAAATGA 114

## RESULT 12

US-09-030-607-44/C  
; Sequence 44, Application US/09030607  
; Patent No. 6262245  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 224  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,607  
; FILING DATE: 25-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; US-09-030-607-44

Query Match 15.6%; Score 173.8; DB 3; Length 852;  
Best Local Similarity 69.7%; Pred. No. 3.3e-37;  
Matches 225; Conservative 0; Mismatches 102; Indels 0; Gaps 0;  
Qy 758 TGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAAGCAAGCGGCCCAAGAGCA 817  
Db 450 TGAAAAAGAGCAAGACCCCTGCGCAAGTGCACACCAAAAAGCAACCAACCGAGAGGGA 391  
Qy 818 CCACCTGTGGAGTTTCATCCGGACATCTCTATCCACCCGAGCTCAACGAGGGCTCA 877  
Db 390 CTCACCTTATGGGAATTCATCCGGACATCTCTTGAACCCAGACAAGAACCCAGATTAA 331  
Qy 878 TGAAGTGGAGAAATCGGCATGAGAGGCGTCTTCAAGTCCGCGCTCCGAGCGTGGCCC 937  
Db 330 TAAATGGAGAACCGCATCTGAGGGCGTCTTCAAGTTCTTGAATCAAGAGCGAGTGGCTC 271  
Qy 938 AACTATGGGCGCAAAAGAAAGAAAGCAAGCAATGACCTTACGAGAAAGCTGAGCGGCGCA 997  
Db 270 AGCTATGGGGTAAAGAAAGAAAGCAAGCAAGCATGACCTTATGAAGAGCTCAGCGGAGCTA 211

QY 998 TGAGGTCTACTACAAAGGGAGATCCGTGAAACGGGTGGATAGGCGGGGACTCGCTACA 1057  
Db 210 TGAATATTACTACAAAGAGAAATCTCGAAGCGGTGTGATGCAAGAACTGTGATTATA 151  
QY 1058 AGTTTGGCAAAACTCAGCGGCTGTGAAAGAGAGAGA 1094  
Db 150 AATTTGGAGAAATGCTCCGAGAGATGGAGAAATATGA 114

```

RESULT 13
US-09-439-313-44/c
: Sequence 44, Application US/09439313
: Patent No. 6329505
GENERAL INFORMATION:
: APPLICANT: Xu, Jiangchun
: APPLICANT: Dillon, Davin C.
: APPLICANT: Mitcham, Jennifer L.
: APPLICANT: Harlocker, Susan Louise
: APPLICANT: Jiang Yugui
: APPLICANT: Reed, Steven G.
: APPLICANT: Kalos, Michael
: APPLICANT: Fanger, Gary
: APPLICANT: Ketter, Mark
: APPLICANT: Solk, John
: APPLICANT: Day, Craig
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
: TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
: FILE REFERENCE: 210121.42769
: CURRENT APPLICATION NUMBER: US/09/439,313
: CURRENT FILING DATE: 1999-11-12
: NUMBER OF SEQ ID NOS: 575
: SOFTWARE: FaalSeq for Windows Version 3.0
: SEQ ID NO: 44
: LENGTH: 852
: TYPE: DNA
: ORGANISM: Homo sapien
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(852)
: OTHER INFORMATION: n = A,T,C or G
US-09-439-313-44

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Query Match	15.6%	Score 173.8;	DB 3;	Length 852;
Best Local Similarity	69.7%	Pred. No. 3.3e-37;		
Matches 235; Conservative	0;	Mismatches 102;	Indels 0;	Gaps 0;

QY	758	TGAGCAAAAGATAC	CTGGGACGTCTG	CGAGGGCGAGAAAGACAGCAAGCCGGCCGAGGGCA	817
Db	450	TGAAAAAGAGCA	AGCCCCCTG	CCAAAGTGCACACCAAAAAGCAACCCGAGAGGA	391
QY	818	CCCACTGTGGAGAT	TCATCCGGGACAT	CTCTCATCCACCCGAGCTCAACGAGGGCTTCA	877
Db	390	CTCATTAATGGGA	AAATTCATCCGCGACAT	CTCTTTAAACCCAGACAAAGAACCCAGGATTTA	331
QY	878	TGAAGTGGAGAA	ATCGGCGATGAGGCGTCTT	CAAGTTCTTGCGCTCCAGGCTGTGGGCC	937
Db	330	TAAATGGGAAG	ACCGATCTGAGGGCGTCTT	CAGTTCTTTGAAATCAAGAGGAGAGTGCTC	271
QY	938	AACATATGGGGCC	CAAAAAGAAAAGAACAGCA	CACTATACCTACGAAAGCTGAGCCGGGCA	997
Db	270	AGCATATGGGGT	AAAAAGAAACAACACAGCAT	ATACCTATGAAAAAGTCAAGCCGACGTA	211
QY	998	TGAGGTATCTACT	ACAAACGGGAGATCT	CGAAACGGGTGATGCGCGGACACTCGTCTCA	1057
Db	210	TGAGTATTA	CTACAAAAGAGAAATCT	TGGAGCGTGTGGATGGAAGAAAGATCGTATATA	151
QY	1058	AGTTTGGCAAA	AACTCAAGCGGCTGTG	AAAGAGGAGAA 1094	
Db	150	AATTTGGAGAA	ATGCTCCGAGGATGAG	AGAAAGAAATA 114	

RESULT 14  
US-09-352-616A-44/C

```

Sequence 44: Application US/09352616A
Patent No. 6395278
GENERAL INFORMATION:
APPLICANT: Dillon, Davin C.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang, Yugu
APPLICANT: Xu, Jiangchun
APPLICANT: Mitcham, Jennifer Lynn
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C8
CURRENT APPLICATION NUMBER: US/09/352,616A
CURRENT FILING DATE: 1999-07-13
NUMBER OF SEQ ID NOS: 472
SOFTWARE: FaastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 852
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc feature
LOCATION: (1) - (852)
OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-44

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Query Match	15.6%	Score 173.8;	DB 3;	Length 852;
Best Local Similarity	69.7%;	Pred. No. 3.3e-37;		
Matches 235; Conservative	0;	Mismatches 102;	Indels 0;	Gaps 0;

Oy	758	TGACCAAGAGATCTGGACCTGTCTCAGGGCAGAAGACAGACACGCGCCAGAGCA	817
Db	450	TGAAAAAGAGCAAGACCCCCCTGCAAGTCCACACAAAAGCACAACCCGAGAGGA	391
Oy	818	CCCACTGTGGAGTTATCCGAGACATCTCTATCCACCCGGAGCTACAGAGGCTCA	877
Db	390	CTCACTTATGGAAATTATCCGCACATCTCTTGAACCCAGACAAAGACCCAGATTTAA	331
Oy	878	TGAAGTGGAGATCGGCATGAAAGGCCTTTCAAGTCTCGCGCTCCGAGGCTGTGCC	937
Db	330	TAAATGGGAAGCCGATCTGAGGGCGTCTTCAGGTTCTTGAAATCAGAGCAGTGGCTC	271
Oy	938	AACATATGGGGCCAAAAGAAAAAGAACAGCAATGACTTACGAGAACTGAGCCGGCCA	997
Db	270	AGCATATGGGGTAAAAAAAGAACAGCAGCATGACTTATGAAAACCTCAGCCGAGCTA	211
Oy	998	TGAGTACTACTACAAACGGGAGATCCTGGACCGGTGTGATGCGCCGCACTGCTTACA	1057
Db	210	TGAGATTTTACTACAAAAGAAATTTCTGGAGCGGTGTGATGACGAAGACTGTATATA	151
Oy	1058	AGTTTGGCAAAACTCAAGCGCGCTGTGAAGAGAGAGA	1094
Db	150	AATTTGGAAGATGCCCCGAGAGATGAGAGAAAATGA	114

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RESULT 15 15-149A-44/C
US-09-232-149A-44/C
Sequence 44 Application US/09232149A
Patent No. 6465611
GENERAL INFORMATION:
APPLICANT: Xu, Jianshun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer Lynn
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C6
CURRENT APPLICATION NUMBER: US/09/232,149A
CURRENT FILING DATE: 1999-01-15
NUMBER OF SEQ ID NOS: 338
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 852
TYPE: DNA
ORGANISM: Homo sapien

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FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)... (852)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-232-149A-44

Query Match 15.6%; Score 173.8; DB 4; Length 852;  
Best Local Similarity 69.7%; Pred. No. 3.3e-37;  
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

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Db 450 TGAAGAGAGAGCAAGACCCCTGCGCAAGGCCACCAAAAAGACCAACCCGAGAGGA 391
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QY 818 CCCACCTGTGGAGATTTCATCCGGGACATCTCATCCACCCGAGCTCAACGAGGCTCA 877
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 390 CTCACCTTAGGGAATTCATCCGGACATCTCTTGAACCCAGACAAAGACCAGATTAA 331
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 878 TGAAGTGGAGAAATCGGCATGAAGGGCTTTCAAGTTCTCGCGCTCGAGGCTGTGCC 937
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 330 TAAATGGGAAAGCCGATCTGAGGGCGCTTTCAAGTTCTTGAATCAGAGGAGTGAGCTC 271
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 938 AACTATGGGGCCCAAAAGAAAAGACAGCAATGACCTTACGAAAGCTGAGCCGGCCA 997
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 270 AGCTATGGGGTAAAGAAAGAACACAGCAGCATGACTATGAAAGCTCAGCCGAGCTA 211
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 998 TGAGTACTACTACAAACGGGAGATCTGGAAGGGGTGATGGCCGGCGACTGCTACA 1057
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 210 TGAGATATTACTACAAAGAAATTTGAGCGTGTGATGAGACGAAGACTGTATATA 151
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1058 AGTTTGGCAAAAATCAAGCGCTGAGAGGAGGAAGA 1094
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Db 150 AATTGGGAAGATGCCCGAGGATGGAGAGAAATGA 114
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Job time : 98.279 sec8

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 21:57:02 ; Search time 624.355 Seconds  
(without alignments)  
3209.338 Million cell updates/sec

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Perfect score: 1985  
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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOCCALIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0  
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Database: Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1712	86.2	1907	14	US-10-097-340-74
2	1712	86.2	1907	15	US-10-291-808-27
3	1712	86.2	1915	9	US-09-964-824A-101
4	1712	86.2	1915	9	US-09-964-824A-553
5	1712	86.2	1915	9	US-09-880-107-340
6	1712	86.2	1915	9	US-09-967-768A-192
7	1712	86.2	1917	9	US-09-922-217-1105
8	1712	86.2	1917	13	US-10-025-380-1105
9	1712	86.2	1956	16	US-10-264-049-756
10	1458.5	73.5	2269	15	US-09-925-301-207
11	928.5	46.8	626	9	US-09-922-217-853
12	928.5	46.8	626	9	US-09-922-217-853
13	928.5	46.8	626	9	US-09-922-217-853
14	928.5	46.8	626	13	US-10-025-380-853
15	833.5	42.0	563	9	US-09-922-217-944
16	833.5	42.0	563	9	US-09-922-217-944
17	833.5	42.0	563	13	US-10-025-380-944
18	803	40.5	502	9	US-09-604-287A-282
19	803	40.5	502	9	US-09-834-759-282
20	803	40.5	502	9	US-09-339-338-282
21	803	40.5	502	10	US-09-551-621-282
22	803	40.5	502	13	US-10-007-805-282
23	803	40.5	502	14	US-10-076-622-282
24	803	40.5	502	15	US-10-124-805-282
25	765	38.5	489	9	US-09-998-598-2280
26	590.5	29.7	1426	9	US-09-925-297-309
27	590.5	29.7	1426	15	US-10-106-698-935
28	585	29.5	1429	9	US-09-764-864-320
29	585	28.0	437	9	US-09-998-598-2216
30	543	27.4	852	9	US-09-759-143-44
31	543	27.4	852	9	US-09-780-669-44
32	543	27.4	852	9	US-09-030-606-44
33	543	27.4	852	9	US-09-822-827-44
34	543	27.4	852	9	US-09-115-453-44
35	543	27.4	852	9	US-09-232-793-44
36	543	27.4	852	9	US-09-895-793-44
37	543	27.4	852	9	US-09-895-814-44
38	543	27.4	852	13	US-10-012-896-44
39	543	27.4	852	14	US-10-010-940-44
40	543	27.4	852	15	US-10-144-678A-44
41	543	27.4	852	15	US-10-294-025-44
42	543	27.4	852	17	US-10-688-838-44
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44	483.5	24.4	1435	15	US-10-017-161-1953
45	483.5	24.4	1435	15	US-10-292-798-1601

## ALIGNMENTS

RESULT 1  
US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1

GENERAL INFORMATION:

APPLICANT: JOHN MONAHAN  
APPLICANT: Manjula GANNAVARAPU  
APPLICANT: Sebastian HOERSCHE  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHWANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT



```

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins for The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-097-340-74

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## Alignment Scores:

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Pred. No.: 2,54e-195 Length: 1907
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 14 Indels: 2
DB: Gaps: 2

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US-08-978-217-16 (1-371) x US-10-097-340-74 (1-1907)

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QY 1 MetAlaAlaThrCySGuIuLeSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20
DB 96 ATGGCTGCACCTGTGAGATTAGCAACATTTTAGCAACTTCACTGAGTGCAGTACAGC 155
QY 21 SerGluAspProThrLeuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
DB 156 TCGGAGACCTCCACCCCTGGCTCTGTCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 215
QY 40 ValLeuThrLeuAsnAengIngnImetThrLeuGluGlyProGluYsaIasertProThr 59
DB 216 GTACTGACCTTGAGCAACCCCAATGTCATTGGAGGTCACAGAGAGGCCAGCTGTTG 275
QY 60 SerGluAspProGlnPheTrpSerTyrThrGlnValLeuGluTrpIleSerTyrGlnVal 79
DB 276 GGGGAACAGCCCACTTCTGTGAGAGCAGCAGGTTTGGACGTGATCAGCTACCAAGTG 335
QY 80 GluIuYsaAsnLysTyrAspAlaSerSerTyrIleAspPheSerArgCySaenMetAspGlyAla 99
DB 336 GAGAGAAACAAGTACGACGCAAGGCCATTCATCTTCAAGATGTGACATGATGGGCC 395
QY 100 ThrLeuCySerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGluYsaAspGln 119
DB 396 ACCCTGCAATGTGCTTGAAGAGCTGTCGTCCTTGGGCTTGGGGGACCA 455
QY 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
DB 456 CTCACAGCCAGCTGCAGACCTCCTTCCAGCTCTTCTGATAGCTCACTTGATGATATT 515
QY 140 GluLeuLeuGluYsaAspGlyMetSerPheGlnGluSerLeuGluYsaAspLeuGlyProPhe 159
DB 516 GAGCTGCTGAGAGAAGATGATGCTCTTCCAGAGGCCCTTA--GACCCAGGGCCCTTT 572
QY 160 AspGlnGlySerProPheAlaGlnGluLeuAspAspGlyArgGlnAlaSerProTyr 179
DB 573 GACCAAGGAGCCCTTTTGGCCAGAGACTGCTGACGACGATGACGAGCAAGCCACCTTAC 632

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QY 180 TyrCySerThrTyrGlyProGluAlaProSerProGlySerSerAspValSerThrAla 199
DB 633 CACCCCGAGAGCTGTGGCCAGAGGCCCTTCCCTGAGGCTTCACTTCCACCGCA 692
QY 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
DB 693 GGGACTGTGCTTCTGAGAGCTCCACTCTCAAGCTCCGGTGAAGTACGAGGACCTG 752
QY 220 AspLeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGlu 239
DB 753 GATCCACTGATGAGCAGCTCTTCCCAAGCAGTGTTCGATGACGCAAGAGGGGAT 812
QY 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAsp 259
DB 813 CCCAAGCAGCGGAAGCGGAACGAGGCCCGCCCGCAAAAGCTGAGCAAAAGATCTGGGAC 872
QY 260 CysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIle 279
DB 873 TGTCTGAGGGCAGAGAGAGCAAGCAGCGCCAGAGGCAACCACTGTGGAGTTCAATC 932
QY 280 ArgAspIleLeuIleHisProGluLeuAengGluGlyLeuMetLysTrpGluAsnArgHis 299
DB 933 CGGGAATCTCTATCCACCCGAGCTCAACGAGGCTCATGAAAGGAGAAATCGCAT 992
QY 300 GluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
DB 993 GAAGCGCTCTTCAAGTCTCGCGCTCCGAGGCTGTGCGCCCAACTAGGGGCCAAAAA 1052
QY 320 LysAsnSerAsnMetThrTyrGluYsaLeuSerArgAlaMetArgTyrTyrLysLysArg 339
DB 1053 AAGAAAGCAACCTGACCTTCAAGAGAGCTGAGCGGCGCATGAGTACGATCAACAAACG 1112
QY 340 GluIleLeuGluYsaArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSer 359
DB 1113 GAGATCTCTGGAAGCGGTGATGCGCGCGCATCTGTTTACAAAGTTGGCAAAAACCTAAC 1172
QY 360 GlyTrpLysGluGluGluValGlyGluSerArgAsn 371
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## RESULT 2

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US-10-291-808-27
; Sequence 27, Application US/10291808
; Publication No. US20030224382A1
; GENERAL INFORMATION:
; APPLICANT: McCelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Trenkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/10/291,808
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US/09/300,958
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-291-808-27

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Alignment Scores:
Pred. No.: 2,54e-195 Length: 1907
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22

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Best Local Similarity: 86.83% Mismatches: 25  
 Query Match: 86.25% Indels: 2  
 Gaps: 2  
 US-08-978-217-16 (1-371) x US-10-291-808-27 (1-1907)

QY 1 MetAlaIaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20  
 DB 96 ATGGCTCAACCTGTGAGATTAGACACATTTTAAACAATCACTTCAATGCGATGTACAGC 155

QY 21 SerGluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeu 39  
 DB 156 TCGGAGGACTCCACCTCGGCTCTGTCTCCCTCTGCTCCACCTTGGGGGCGGATGACTTG 215

QY 40 ValLeuThrLeuAsnAngInglMetThrLeuGluGlyProGluValAspTyrThr 59  
 DB 216 GTATGACCTCGACCAACCCCAATGTCATTTGAGGGTACAGAGGAGCCAGCTGGTTG 275

QY 60 SerGluArgProGlnPheTyrSerLeuThrGlnValLeuGluTyrPileSerTyrGlnVal 79  
 DB 276 GGGGAACAGCCCGAGTCTGTGTCAGACGAGGTTTGACATGCGATCAGTACCAAGTG 335

QY 80 GluLysAsnLysTyrAspAlaSerSerTleAspPheSerArgCysAsnMetAspGlyAla 99  
 DB 336 GAGAGAACAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 395

QY 100 ThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119  
 DB 396 ACCCTGCAATGTGCTTGGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 455

QY 120 LeuHisAlaGlnLeuAspLeuThrSerAsnSerAspGluLeuSerTyrPile 139  
 DB 456 CTCATGCTCCAGCTGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 515

QY 140 GluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPhe 159  
 DB 516 GAGCTGCTGAGAGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 572

QY 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyValArgGlnAlaSerProTyr 179  
 DB 573 GACCAAGGAGCCCTTGTGCGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 632

QY 180 TyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199  
 DB 633 CACCCCGGACGCTGTGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 692

QY 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyLysSerAspValAspLeu 219  
 DB 693 GGGAGCTGTGCTGTGCGAGCTCCCACTCCAGACTCCGAGTGAAGTGAAGTGAAGTGAAGTGA 752

QY 220 AspLeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysGlyGlu 239  
 DB 753 GATCCCACTAATGAGCAAGCTCTTCCCAAGCATGTTTCTGTGATCCCAAGAGGGGAT 812

QY 240 ProLysHisGlyLysArgLysArgLysArgLysArgProArgLysSerLysGlyTyrTyrTyrTyr 259  
 DB 813 CCCAAGACCGGAGAGCGGAGAGAGCGGAGAGAGCGGAGAGAGCGGAGAGAGCGGAGAGAGCGG 872

QY 260 CysLeuGluGlyLysLysSerLysHisAlaLeuProGlyLysHisAlaLeuTyrPile 279  
 DB 873 TGCTCGAGGGCAAG 932

QY 280 ArgAspLysLeuLysHisProGluLeuAsnGluGlyLeuMetLysTyrPileAsnArgHis 299  
 DB 933 CGGAGACCTCTCAATCCACCGGAGCTCAACAGGAGCTCAATGAGTGAAGTGAAGTGAAGTGA 992

QY 300 GluGlyValPheLysPheLeuArgSerGlyValAlaAlaGlnLeuTyrPileGlyLysLys 319  
 DB 993 GAGAGCTCTTCAAGTCTCTGCGCTCCGAGGCTTGGCCCACTATGAGGCGCAAAAGAAA 1052

QY 320 LysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArg 339  
 DB 1053 AAGAAACGACAACTGACCTACGAGAGCTGAGCGGCGCATGAGTACTACTCAAAACGG 1112

QY 340 GluLeuLeuGluArgValAspGlyArgGluLeuValTyrLysPheGlyLysAsnSerSer 359  
 DB 1113 GAGATCTGGAACGGGTGATGAGCCGCGACCTGCTTCAACAAGTTTGGCAAAACTCAAGC 1172

QY 360 GlyTyrPysGluGluGluValGlyLysSerArgAsn 371  
 DB 1173 GCGTGAAGAGAGAGAGAGGTTTCCAGAGTGGAGAC 1208

RESULT 3  
 US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; TITLE OF INVENTION: Sets  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; PRIOR FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-964-824A-101

Alignment Scores:  
 Pred. No.: 2,566-195 Length: 1915  
 Score: 1712.00 Matches: 323  
 Percent Similarity: 92.74% Conservative: 22  
 Best Local Similarity: 86.83% Mismatches: 25  
 Query Match: 86.25% Indels: 2  
 Gaps: 2

US-08-978-217-16 (1-371) x US-09-964-824A-101 (1-1915)

QY 1 MetAlaIaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20  
 DB 120 ATGGCTCAACCTGTGAGATTAGACACATTTTAAACAATCACTTCAATGCGATGTACAGC 179

QY 21 SerGluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeu 39  
 DB 180 TCGGAGGACTCCACCTGCTGTGTTCCCTCTGCTGCCACTTTGGGGCGGATGACTTG 239

QY 40 ValLeuThrLeuAsnAngInglMetThrLeuGluGlyProGluValAspTyrThr 59  
 DB 240 GTAATGACCTCGACCAACCCCAATGTCATTTGAGGGTACAGAGAGCCAGCTGGTTG 299

QY 60 SerGluArgProGlnPheTyrSerLeuThrGlnValLeuGluTyrPileSerTyrGlnVal 79  
 DB 300 GGGGAACAGCCCGAGTCTGTGTCAGACGACGACGACGACGACGACGACGACGACGACGACGAC 359

QY 80 GluLysAsnLysTyrAspAlaSerSerTleAspPheSerArgCysAsnMetAspGlyAla 99  
 DB 360 GAGAGAACAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 419

QY 100 ThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 119  
 DB 420 ACCCTGCAATGTGCTTGGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 479

QY 120 LeuHisAlaGlnLeuAspLeuThrSerAsnSerAspGluLeuSerTyrPile 139  
 DB 480 CTCATGCTCCAGCTGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 539

QY 140 GluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPhe 159

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Db 540 GACGTGCTGAGAGATGCGATGCTTCACAGAGGCCCTTA--GACCCAGGCGCCCTT 596
Qy 160 AAGGAGGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
Qy 597 GACCAAGGAGCCCTTTCGCGAGAGAGCTGTGACCAAGTCAAGGAGAGCCCTTAC 656
Qy 180 TyrCysSerThrTyrGlyProGlyValAlaProSerProGlySerSerAspValSerThrAla 199
Db 657 CACCCGCGACGCTGTGGCGAGAGAGCCCTCCCTCGGAGAGCTGTGACGCTCCACCGCA 716
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 717 GGGACGTGTGCTTCGAGAGCTCCCACTCTCAAGCTCCGATGGAAGTGAAGTGAAGCTG 776
Qy 220 AspLeuThrGluSerLysValAlaPheProArgAspAspPheThrAspTyrLysValGlu 239
Db 777 GATCCCACTATGAGCAAGCTCTTCCCAAGATGCTTTGTGATCTGCAAGAAAGGGGAT 836
Qy 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTyrAsp 259
Db 837 CCAGAGCAGCGGAAGCGGAAACGAGCGCGGCCGGAAGCTGAGCAAGAGTACTGGAC 896
Qy 260 CysLeuGlnGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIle 279
Db 897 TGTCTGAGGGGCAAGAGAGCAAGCAGCGCCCGAGAGCAACCACTGTGGAGTTTCATC 956
Qy 280 ArgAspIleLeuIleHisProGlnLeuAsnGlnGlyLeuMetLysTyrGlyLysAsnArgHis 299
Db 957 CGGAGCATCTCTTCCACCGGAGCTCAAGAGGGCTCATGAGTGGAGAAATCGGCAT 1016
Qy 300 GlnGlyValPheLysPheLeuArgSerGlyValAlaValAlaGlnLeuTyrGlyLysLys 319
Db 1017 GAAGGCGCTTCAAGTCTCGCGCTCGAGAGCTGTGGCCCAATATGAGGCGCAAAAGAAA 1076
Qy 320 LysAsnSerAsnMetThrTyrGlnLysLeuSerArgAlaMetArgTyrTyrTyrLysArg 339
Db 1077 AAGAAACGCAACATGACTCAAGAACTGAGAGCGGCGCATGAGTCTACTCAAAACGG 1136
Qy 340 GlnIleLeuGlnLysArgValAlaArgLysArgLysLeuValTyrLysPheGlyLysAsnSerSer 359
Db 1137 GAGATCTGTGAAGCGGTGATGTGGCCGCGACTGCTCTCAAGATTGGCAAAAATCTCAAGC 1196
Qy 360 GlyTyrLysGlnGlnGlnValGlnGlnSerArgAsn 371
Db 1197 GCGTGGAAAGAGAGAGGTTCTCCAGAGTCGGAAC 1232
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RESULT 4
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horriigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964, 824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563
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Alignment Scores:

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Pred. No.: 2,56e-195 Length: 1915
Score: 1712.00 Matches: 33
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: 9 Gaps: 2

US-08-978-217-16 (1-371) x US-09-964-824A-563 (1-1915)
Qy 1 MetAlaAlaThrCysGlnLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20
Db 120 ATGGCTGCAACCTGTAGATTAGCAACATTTTATGACTACTTCACTGTCGATGTACAC 179
Qy 21 SerGluAspProThrLeuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
Db 180 TCGAGAGACTCCACCTGGCGCTGTGTCCCTCGTGCACACTTGTGGGCGCATGACTTG 239
Qy 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGlnGlyProGlnLysValAlaSerTyrPhe 59
Db 240 GATCTACACCTGAGCAACCCCAAGATGATGAGAGGTAAGAGAGAGCCAGCTGTG 299
Qy 60 SerGluArgProGlnPheThrPheThrLysThrGlnValLeuGlnTyrPheSerTyrGlnVal 79
Db 300 GGGGAAACAGCCCAAGTTCGTGTGTAAGACGAGTTCTGATCTGATCAGTCAAGTGA 359
Qy 80 GlnLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99
Db 360 GAGAAAGAACAGTACAGACCAAGCGCATTTGACTTCAAGATGTGACATGATGAGCGCC 419
Qy 100 ThrLeuCysSerCysValAlaLeuGlnGlnLysValPheGlyProLeuGlnLysAsnGln 119
Db 420 ACCCTTGCAATTTGTCCTTGAAGAGCTGCTGTGTGTTGGGCTCTGGGGAGCCAA 479
Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGlnLeuSerTyrPheIle 139
Db 480 CTCATGCGCCAGCTGGAGAACCTCACTTCCAGTCTTCTGATGAGCTCAAGTTCGATC 539
Qy 140 GlnLeuLeuGlnLysAspGlyMetSerPheGlnGlnSerLeuGlnLysAspLeuGlyProPhe 159
Db 540 GAGCTCTGAGAGAGATGAGCATGGCTTCCAGAGAGCCCTA--GACCCAGGCGCCCTTT 596
Qy 160 ArgGlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
Db 597 GACCAAGGAGAGCCCTTTCGCGAGAGCTGTGAGAGAGGTCAGCAAGCAGCCCTTAC 656
Qy 180 TyrCysSerThrTyrGlyProGlyValAlaProSerProGlySerSerAspValSerThrAla 199
Db 657 CACCCGCGACGCTGTGGCGAGAGAGCCCTCCCTCGGAGAGCTGTGACGCTTCCACCGCA 716
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 717 GGGACGTGTGCTTCGAGAGCTCCCACTCTCAAGCTCCGATGGAAGTGAAGTGAAGCTG 776
Qy 220 AspLeuThrGluSerLysValAlaPheProArgAspAspPheThrAspTyrLysValGlu 239
Db 777 GATCCCACTATGAGCAAGCTCTTCCCAAGATGCTTTGTGATCTGCAAGAAAGGGGAT 836
Qy 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTyrAsp 259
Db 837 CCAGAGCAGCGGAAGCGGAAACGAGCGCGGCCGGAAGCTGAGCAAGAGTACTGGAC 896
Qy 260 CysLeuGlnGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIle 279
Db 897 TGTCTGAGGGGCAAGAGAGCAAGCAGCGCCCGAGAGCAACCACTGTGGAGTTTCATC 956
Qy 280 ArgAspIleLeuIleHisProGlnLeuAsnGlnGlyLeuMetLysTyrGlnLysValAsp 299
Db 957 CGGAGCATCTCTTCAAGCTCCGAGCTCAAGCGGCTCATGAGTGGAGATCGGCAT 1016
Qy 300 GlnGlyValPheLysPheLeuArgSerGlyValAlaValAlaGlnLeuTyrGlyLysLys 319
Db 1017 GAAGGCGCTTCAAGTCTCGCGCTCGAGAGCTGTGGCCCAATATGAGGCGCAAAAGAAA 1076
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Qy	320	lysansnsrAanMeThrTYGLuylsEuseRArgAlaMeRArgTYrTYrYsAlq	339
Db	1077	AAGAACACCAACATGACCTTACGAGAAAGCTGAGCCGGGACCATGAGTACTACTACAAACGG	1133
Qy	340	GlurIeugGuArGvAlaSPGlyARgArleuValTYrYlSpheGlylysAnsErSer	359
Db	1137	GAGATCCTGGAACGGGTGGATGCGCGCGACTCGCTCAAGATTGGCAAAAACACAAGC	1198
Qy	360	GIYrTdyrSGluGluGluValGlyGluSerArgaen	371
Db	1197	GGCTGGAGAGAGAGAGAGGTTCTCCAGAGTCGGAAC	1232
RESULT 5			
	US-09-880-107-3420		
	Sequence 3420, Application US/09880107		
	Patent No. US20020142981A1		
	GENERAL INFORMATION:		
	APPLICANT: Horne, Darci T.		
	APPLICANT: Vockley, Joseph G.		
	APPLICANT: Scherf, Uwe		
	APPLICANT: Gene Logic, Inc.		
	TITLE OR INVENTION: Gene Expression Profiles in Liver Cancer		
	FILE REFERENCE: 44921-5028-WO		
	CURRENT APPLICATION NUMBER: US/09/880.107		
	CURRENT FILING DATE: 2001-06-14		
	PRIOR APPLICATION NUMBER: US 60/211,379		
	PRIOR FILING DATE: 2000-06-14		
	PRIOR APPLICATION NUMBER: US 60/237,054		
	PRIOR FILING DATE: 2000-10-02		
	NUMBER OF SEQ ID NOS: 3950		
	SOFTWARE: PatentIn Ver. 2.1		
	SEQ ID NO 3420		
	LENGTH: 1915		
	TYPE: DNA		
	ORGANISM: Homo sapiens		
	FEATURE:		
	OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843		
	US-09-880-107-3420		

Alignment Scores:		
Pred. No.:	2,566-195	Length: 1915
Score:	1712.00	Matches: 1323
Percent Similarity:	92.74%	Conservative: 22
Best Local Similarity:	86.83%	Mismatches: 25
Query Match:	86.25%	Indels: 2
DB:	9	Gaps: 2

  

US-08-978-217-16 (1-371) x US-09-880-107-3420 (1-1915)	
QY 1 MetAlaAlaThrCyGluIleSerAsnValPheSerAsnTrpPheAsnAlaMetTySer 20	1195
Db 120 ATGCGTCGAACCTGTGAGATTGACAACATTTTATGACACTACTCTGATGCGATGACAGC 179	1323
QY 21 SerGluAspProThrLeuAlaProAlaProPro---ThrThrpheGlyThrGluAspLeu 39	22
Db 180 TCGGAGACTCCACCTGGACCTCTGTCTCCCTGCTGCCACTTTGGGGCCATGACTTG 239	25
QY 40 ValLeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluIlyAsaIaSerTrpThr 59	299
Db 240 GTACTGACCCCTGAGCAACCCCCAGATGATTCATGGAGGTACAAGAGAAGGCCACTGGTTG 299	359
QY 60 SerGluAspProGlnPheTrpSerIlyThrGlnValLeuGluTrpIleSerTrpGlnVal 79	359
Db 300 GGGGAGACGCCCCAGTTCGTGTGAGAGACGAGTTCGTGACTGAGATCAAGCTACCAAGTG 359	419
QY 80 GluTyAsnIlyTyLeuAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99	419
Db 360 GAGAGAGAACAAATGACGACCAAGCCCATTTGACTTCTCAAGATGTACATGATGGGCC 419	
QY 100 ThrLeuCySerCysAlaLeuGluGluLeuAspLeuValPheIlyProLeuGlyAspGln 119	
Db 420 ACCCTCTGAAATGTGCTTCATGAGAGCTGCGCTGTCTTTTGGCTCTGGGGAGCA 479	

OY	120	LeuHisIaGlnLeuAaGApLeuThSerAsnSerAspGluLeuSerTrpIle	139
Db	480	CTCATGCGCCAGCTGCAGACCTCACTTCCAGCTCTTGATGAGCTCAgTTGGATCATT	539
OY	140	GluLeuLeuGluIyAspGlyMeSerPheGlnGluSerLeuGlyAspLeuGlyProPhe	159
Db	540	GAGCTGCTGAGGAAGATGGCATGGCTTCCAGAGAGCCCTA---GACCCAGGGCCCTTT	596
OY	160	AspGlnGlySerProPheIaGlnGluLeuLeuAspArgIyAaGgInaIaSerProTrp	179
Db	597	GACCAAGGACAGCCCCCTTGGCCAGAGACTGTGACAGACGGTCAGCAAGCCAGCCCTTAC	656
OY	180	TyrCysSerThrTyrgIyProGlyAlaProSerProGlySerSerAspValSerThAla	199
Db	657	CACCCCGGACAGCTGTGGCGAGAGCCCCCTCCCTGGACGCTTGACGTTCACCGCA	716
OY	200	ArgThrIaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu	219
Db	717	GGAGCTGTGCTTCCGAGAGCTCCCACTCCTCAAGCTCCGGTGGAAGTGAAGTGAAGCTG	776
OY	220	AspLeuThrGluSerIyValPheProArgAspAspPheThrAspTyTyIyIyGlyGlu	239
Db	777	GATCCCACTGATGCGAAGCTCTTCCCAAGCATGTGTTTCGTGACTGCAGAACAGGGGAT	836
OY	240	ProIyHisGlyIyAsaGlyAsaGlyAlaArgProArgIyIyLeuSerIyGluTyTrpAsp	259
Db	837	CCCAAGCACGGGAAGCCGGAACGAGAGCCGAGCCCGGAAGCTGAGCAAAAGATACGGAGAC	896
OY	260	CysLeuGlnGlyIyIyIySerIyHisAlaAspArgGlyThrHisLeuTrpGluPheIle	279
Db	897	TGTCTCGAGGGCAGGAAGAGCAAGACAGCGGCCAGAGGCCACCTGTGGAGATTCATC	956
OY	280	ArgAspIleLeuIleHisProGluLeuAsnGlnGlyLeuMetIySTPGLuaAsnArgHis	299
Db	957	CGGACATCTCCATCCACCCCGAGCTCAACAGAGGGCTCAAGAAAGTGGGAAGATCGCAT	1016
OY	300	GluGlyValPheIyPheLeuArgSerGlnIaValaIaGlnLeuTrpGlyGlyIyIySerIyS	319
Db	1017	GAAAGCGCTTCAAGTTCTCTGCGCTCCAGAGCTGTGGCCCACTAATGGGGCCAAAAGAA	1078
OY	320	LysAsnSerAsnMetThrTyrgIuIyIyLeuSerArgIaMetArgTyTyTyTyIyAsnG	339
Db	1077	AAGAACAGCAACATGACTCAAGAGAAGTGAGCCGGGCCATGAGATCTACTCAACAAAGG	1138
OY	340	GluIleLeuGluIyArgValAspGlyAlaArgArgLeuValTyTyIyIyPheGlyIyAsnSerSer	359
Db	1137	GAGATCTCTGGAACGGGTGATAGCGCCGGGACATCTCATCAAGATTGGCAAAACACTCAGC	1196
OY	360	GlyTyTrpIyGlnGlnGlnIyValaGlyGlnSerArgAsn	371
Db	1197	GGCTGGAAAGGAGAGAGTTCTCCAGAGTGGGAAC	1232

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RESULT 6
US-09-967-768A-192
; Sequence 192, Application US/09967768A ;
; Patent No. US20020150877A1 ;
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatures
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Alignment Scores:
Pred. No.: 2,56e-195      Length: 1915
Score: 1712.00           Matches: 323
Percent Similarity: 92.74%   Conservative: 22
Best Local Similarity: 86.83%  Mismatches: 25
Query Match: 86.25%         Indels: 2
DB: 9                      Gaps: 2

US-08-978-217-16 (1-371) x US-09-967-768A-192 (1-1915)

QY 1 MetAlaAlaThrcYsgluIleSerAsnValPheSerAsnTyrPheAnaIametyrSer 20
DB 120 ATGGCTGCAACCTGTAGATTAGCAACATTTTAGCAACTTCAAGTGGATGTACAGC 179
QY 21 SerGluAspProThrIleuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
DB 180 TCGGAGGACTCCACCCCTGGCTCTGTCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 239
QY 40 ValIeuThrIleuAsnAngInglImetThrIeuGluGlyProGluIyValaSerTyrThr 59
DB 240 GTACTGACCTGTAGCAACCCCAAGATGTCAATGGAGGTAACAAGAGGCCAGCTGCTTG 239
QY 60 SerGluArgProGlnPheTyrPheTyrSerIyThrGlnValIeuGluTyrIleSerTyrGlnVal 79
DB 300 GGGGAACAGCCCAAGTTCTGTGTGAGAACGACAGGTTCTGACATGTGATCACTACCAAGTG 359
QY 80 GluIyAsnIyTyrAspAlaSerSerIleAspPheSerArgCyAsnMetAspGlyAla 99
DB 360 GAGAGAACAGTACGACGACAGGCCCATGACTTCTCACAGATGTGACATGATGGCGCC 419
QY 100 ThrIeuCySerCyAsnAlaIeuGluGluIleuArgIleuValPheGlyProIleuGluIyAspGln 119
DB 420 ACCCTCTGCATATGTGCTTGTAGAGACTGCTGTGCTTGTGGCTCTGGGGAGACAA 479
QY 120 LeuHlaIaGlnIleuArgAspLeuThrSerAsnSerSerAspGluIeuSerTyrIleIle 139
DB 480 CTCATATGCCAGGCTGCGAGACCTCACTTCCAGCTCTTCTATAGACTCAATTTGGATATT 539
QY 140 GluIleuIeuGluIyAspGlyMetSerPheGlnIleuSerIeuGluIyAspLeuGlyProPhe 159
DB 540 GAGCTGCTGAGAGAGATGACATGCGCTTCCAGAGAGCCCTTA--GACCCAGGGGCCCTTT 596
QY 160 AspGluGlySerProPheAlaGlnIleuIleuAspAspGlyArgGlnAlaSerProTyr 179
DB 597 GACCAAGGGAGCCCTTGTGCGAGAGCTGTGACAGAGCTCAAGCCAGCCCTTAC 656
QY 180 TyrCySerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
DB 657 CACCCGGGAGCTGTGGCGAGAGGCCCTCCCTGCGAGCTGTGACGTCTCCACCGCA 716
QY 200 ArgThrAlaThrProGlnSerSerHlaSerAspSerGlyIySerAspValAspLeu 219
DB 717 GGAGACTGTGCTTCTCCGAGACTCCCACTCTCAGACTCCCGGTGGAAGTGAAGTGAAGCTG 766
QY 220 AspLeuThrGluSerIyValPheProArgAspAspPheThrAspTyrIyIyValGlu 239
DB 777 GATCCCACTATAGCAAGCTTCTCCCAAGAGATGTTTGTGTGCTGCAAGAAAGGGGAT 836
QY 240 ProIyHlaIeGlyIyAspArgIyAspArgIyArgProArgIyIleuSerIyGluTyrIyAsp 259
DB 837 CCAAGACGCGGAGAGCGGAAACAGAGCGCGCCCGAGAAAGCTGAGCAAAAGTACTGGAC 896
QY 260 CyLeuGluGluIyIyValySerIyHlaIaProArgGlyThrHlaIeuTyrGluPheIle 279
DB 897 TGTCTGAGGGGCAAGAGACCAAGCAGCCCGCAGAGCAACCACTGTGGAGTTTATC 956
QY 280 ArgAspIleuIleuHlaIaProGluIleuAsnGluGlyIleuMetIySerTyrGluAsnArgHla 299
DB 957 GGGGACATCTCTCAACCCGAGAGCTCAACGAGGGCTCAATGAATGGGAAATCGGCAT 1016

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QY 300 GluGlyValPheIyAspLeuArgSerGluAlaValAlaGlnIeuTyrGlyIyValy 319
DB 1017 GAAGGCTCTTCAAGTCTCTCGGCTCGAGGCTGTGGCCCACTATAGGGCCAAAAGAA 1076
QY 320 IyAsnSerAsnMetThrTyrGluIyIleuSerArgAlaMetArgTyrTyrIyIyAsp 339
DB 1077 AAGAACAGCAACATGACCTTACGAGAGAGCTGAGCGGGGCATGAGGTACTACAAACCG 1136
QY 340 GluIleuGluArgValAspGlyArgArgIleuValTyrIyPheGlyIyAsnSerSer 359
DB 1137 GAGATCTCGAAGCGGTGATGGCCGCACTGTCTTCAAGTTTGGCAAAACTCAAGC 1196
QY 360 GlyTyrIyGluGluIyValGlyIySerArgAsn 371
DB 1197 GGCTGGAAGAGAGAGAGGTTCTCCAGATCGGAGC 1232

RESULT 7
US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US2002076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeline Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongrong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121, 471C13
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1105

Alignment Scores:
Pred. No.: 2,56e-195      Length: 1917
Score: 1712.00           Matches: 323
Percent Similarity: 92.74%   Conservative: 22
Best Local Similarity: 86.83%  Mismatches: 25
Query Match: 86.25%         Indels: 2
DB: 9                      Gaps: 2

US-08-978-217-16 (1-371) x US-09-922-217-1105 (1-1917)

QY 1 MetAlaAlaThrcYsgluIleSerAsnValPheSerAsnTyrPheAnaIametyrSer 20
DB 122 ATGGCTGCAACCTGTAGATTAGCAACATTTTAGCAACTTCAAGTGGATGTACAGC 181
QY 21 SerGluAspProThrIleuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
DB 182 TCGGAGGACTCCACCCCTGGCTCTGTCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 241
QY 40 ValIeuThrIleuAsnAngInglImetThrIeuGluGlyProGluIyValaSerTyrThr 59
DB 242 GTACTGACCTGTAGCAACCCCAAGATGTCAATGGAGGTAACAAGAGGCCAGCTGCTTG 301
QY 60 SerGluArgProGlnPheTyrPheTyrSerIyThrGlnValIeuGluTyrIleSerTyrGlnVal 79
DB 302 GGGGAACAGCCCAAGTTCTGTGTGAGAACGACAGGTTCTGACATGTACATCAAGTG 361

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; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; FILE REFERENCE: Nucleic Acids, Proteins and Antibodies
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-301-207

Alignment Scores:
Pred. No.: 2,72e-195 Length: 1996
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: Gaps: 2

US-08-978-217-16 (1-371) x US-09-925-301-207 (1-1996)
QY 1 MetAlaAlaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSer 20
Db 141 ATGGCTGCAACCTGTGATGATTACCAACATTTTAGCACTACTTCAGTGGATGTACAGC 200
QY 21 SerGluAspProThrIleuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeu 39
Db 201 TCGAGAGACTCCACCCCTGCTGTCTCCCTGCTGCCACCTTGGGGCCGATGACTTG 260
QY 40 ValIleuThrIleuAsnAngInGlnMetThrIleuGluIleProGluIleValSerTyrThr 59
Db 261 GTTCTGACCTTGAGCAACCCCGAGATCTATTGGAGGTACAGAGAGCCACCTGGTTG 320
QY 60 SerGluArgProGlnPheTyrSerTyrThrGlnValIleuGluIleTyrIleSerTyrGlnVal 79
Db 321 GGGGAACAGCCCGAGTTCTGTGAGAGACGACGATTCGTGAGTGCATGACCTACCAAGTG 380
QY 80 GluIleAsnIleTyrIleAspAlaSerSerIleAspPheSerArgCysAsnMetIleAspGlyAla 99
Db 381 GAGAAAGAACAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 440
QY 100 ThrIleuCysSerCysAlaIleuGluIleuArgIleuValPheGlyProIleuGluIleAspGln 119
Db 441 ACCCTCTGCAATTGTGCTTGGAGAGCTGCTGTCTTGGGCTTGGGGGACCAA 500
QY 120 LeuHisIleGlnIleuArgAspLeuThrSerAsnSerSerAspGluIleuSerTyrIleIle 139
Db 501 CTCACATGCCAGCTGCGAGACCTCCTCAGCTCTTGTATGAGTCACTTGCATTCATT 560
QY 140 GluIleuIleuGluIleAspGlyMetSerPheGlnIleuSerIleuGluIleAspLeuIleProPhe 159
Db 561 GAGCTGCTGAGAGAGATGACGATGACGATGACGATGACGATGACGATGACGATGACGATGAC 617
QY 160 AspGlnGlySerProPheAlaGlnIleuGluIleuAspGlyIleArgGlnIleAspProTyr 179
Db 618 GACCAAGGAGCCCTTGTGCTGAGAGCTGCTGAGACGATGACGACGACGACGACGACGACGAC 677
QY 180 TyrCysSerThrTyrGlyIleProGlyAlaProSerProGlySerSerAspValIleSerThrAla 199
Db 678 CACCCCGGAGCTGTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 737
QY 200 ArgThrAlaThrProGlnIleuSerSerHisIleAspSerIleGlyIleSerAspValAspLeu 219
Db 738 GGGAGTGTGCTTCTCGAGACTCCCACTCTCAACACTCCGATGAGAGAGAGAGAGAGAGAGAG 797
QY 220 AspLeuThrGluSerIleValPheProArgAspAspPheThrAspTyrIleValGlyGlu 239

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Db 798 GATCCACGATGAGCAGCTCTTCCCGACGATGTTTCTGATGCAAGAGGGGGAT 857
QY 240 ProIleHisGlyIleValArgIleArgIleArgProArgIleSerIleGlyIleTyrPheAsp 259
Db 858 CCAAGCAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 917
QY 260 CysLeuGluGlyIleValSerSerIleHisAlaProArgGlyThrHisIleuTyrPheIle 279
Db 918 TGTCTGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 977
QY 280 ArgAspIleIleuIleHisProGluIleuAngIleuMetIleTyrPheIleAsnArgHis 299
Db 978 CCGAGACATCTCATCCACCCGAGCTCAACGAGGCTCATGAGTGAAGAGATGGGCAAT 1037
QY 300 GluIleValPheIlePheIleuArgSerGluIleAlaIleGlnIleuTyrGlnIleValIle 319
Db 1038 GAAGGCTTCAAGTCTCTGCTCGAGGCTGTGGCCCACTATGGGGCCAAAGAGAA 1097
QY 320 LysAsnSerAsnMetThrTyrGluIleuSerArgAlaMetArgTyrTyrIleValArg 339
Db 1098 AAGAACAGCAATGACCTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1157
QY 340 GluIleIleuGluArgValAspGlyIleArgIleuValTyrIlePheGlyIleAsnSerSer 359
Db 1158 GAGATCTGGAACGGGTGATGGCGGCACTGCTCAAGATTGGCAAAATCAACAGC 1217
QY 360 GlyTyrPheGluGluIleValGlyIleSerArgAsn 371
Db 1218 GGCTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1253

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## RESULT 11

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US-10-131-410-64
; Sequence 64, Application US/10131410
; Publication No. US20030235915A1

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; GENERAL INFORMATION:
; APPLICANT: SPEECH, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKI, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; TITLE OF INVENTION: TUMORS
; FILE REFERENCE: SCH-1763
; CURRENT APPLICATION NUMBER: US/10/131,410
; PRIOR FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 09/646,673
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: PCT/DE99/00908
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 2269
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-131-410-64

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Alignment Scores:
Pred. No.: 1,05e-164 Length: 2269
Score: 1458.50 Matches: 281
Percent Similarity: 93.71% Conservative: 17
Best Local Similarity: 88.36% Mismatches: 19
Query Match: 73.48% Indels: 3
DB: Gaps: 1

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US-08-978-217-16 (1-371) x US-10-131-410-64 (1-2269)

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QY 54 GluIleValSerTyrThrSerGluArgProGlnPheTyrSerIleThrGlnValIleGlu 73
Db 15 GAGAAAGCAGCTGTGGGGAGAACGCCCAAGTCTGTGTCAAGAG-CAGGTTCTTGAC 73

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QY 74 TPIIleSertYrgInValGluLyAsnLyTrAspAlaSerSerIleAspPheSerArg 93
Db 74 TGGATCAGTACCAAGAGGAGAAACAAGTACGACCAAGCCGACTTGTCTCCAG 133
QY 94 CAAAsmMetAspAlaAThrLeuCySerCyAlaIleuGluIleuAspGluValPhe 113
Db 134 TGGACATGATGGCGCCCTTGTCAATTGTCCCTTGAAGAGCTGGCTGTCTTT 193
QY 114 G1yProLeuG1yAspG1nLeuH1eAlG1LeuArgAspLeuThrSerAsnSerAsp 133
Db 194 GGGCCTCTGGGGGACCAACTCCAGCTGGAGAACCTCACTTCCACTCTTCTGAT 253
QY 134 G1uLeuSertYrIleIleG1uLeuLeuG1uLyAspG1yMetSerPheG1nG1uSerLeu 153
Db 254 GAGCTCAGTTGATCATTTGAGCTGCTGGAGAGAGATGAGCATGGCTTCCAGAGGCCCTA 313
QY 154 G1yAspLeuG1yProPheAspG1nG1ySerProPheAlaG1nG1uLeuAspAspG1y 173
Db 314 --GACCCAGGCGCTTGTGACCAAGGCAAGCCCTTGTCCCAAGAGCTGTGACAGAGT 370
QY 174 ArgG1nAlaSerProTyTyTyCySerThrTyG1yProG1yAlaProSerProG1ySer 193
Db 371 CAGCAAGCCAGCCCTCAACACCCCGGAGCTGTGGCCAGAGGCCCTCCCTGGGAGC 430
QY 194 SerAspValSerThrAlaArgThrAlaThrProG1nSerSerH1eAlaSerAspSerG1y 213
Db 431 TCTGACCTCTCCACCCG-AGGAGCTGTCTTCTCGAGGCTCCCACTCTCAGACTCCGGT 489
QY 214 G1ySerAspValAspLeuAspLeuThrG1uSerLyValPheProArgAspAspPheThr 233
Db 490 GGAAGTACAGTGGAGCTGTGATCCCACTGATGGCAAGCTTCCCAAGCAATGGTTTCGT 549
QY 234 AspTyTyLyAspG1yProLySh1eG1yLyAspG1yAspG1yAspProArgLyLeu 253
Db 550 GACTGCAGAAAGGGGAGATCCCAAGCAAGGAAAGGAAAGAGGCGGCCCAAGCTG 609
QY 254 SerLySG1uTyTrAspCyLyLeuG1uLyLyLySerLySh1eAlaProArgLyThr 273
Db 610 AGCAAAAGTACTGGGACTGTCTCGAGGCAAGAAAGCAAGCAAGCGGCCAGAGGCAAC 669
QY 274 H1eLeuTrpG1uPheIleArgAspIleLeuIleH1eAspProG1uLeuAspG1uLyLeuMet 293
Db 670 CACTGTGGAGTTCATCCGAGCATCTCTCAATCCAGGAGCTCAAGAGGCTCATG 729
QY 294 LySerpG1uAsnArgH1eSG1uG1yValPheLySerpHeuArgSerG1uAlaValAlaG1n 313
Db 730 AAGTGGGAGATGGGATGAAAGGCTTCAAGTTCTGTGGCTCCAGGCTGTGGCCAA 789
QY 314 LeuTrpG1yG1uLyLyLyLyAsnSerAspMetThrTyG1uLyLeuSerArgAlaMet 333
Db 790 CTATGGGGCCAAAGAAAGAAAGAACAGCAATGACTCTCAAGAGCTGAGCCGGCCATG 849
QY 334 ArgTyTyTrTyLyAspG1uIleLeuG1uArgValAspG1yArgArgLeuValTyTyLyS 353
Db 850 AGGTACTACTACAAAGGAGATCTGAAAGGGTGAATGGCGGCACTGACTTACAG 909
QY 354 PheG1yLyAsnSerSerG1yTyTyLySG1uG1uG1yValG1yLeuSerArgAsn 371
Db 910 TTTGGCAAAAACCAAGCGGCTGGAAGAGAGAGGTTCTCCAGATCGGAAC 963

RESULT 12
US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodee, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
```

```
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-922-217-853

Alignment Scores:
Pred. No.: 9,88e-102 Length: 626
Score: 928.50 Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.78% Indels: 1
DB: 9 Gaps: 1

US-08-978-217-16 (1-371) x US-09-922-217-853 (1-626)
QY 52 G1yProG1uLyAlaSerTrpThrSerG1uArgProG1nPheTrpSerLyThrG1nVal 71
Db 624 GGTACAGAGAGAGCCAGCTGTGGGGGAAACAGCCCACTTGTGTGCAAGAGCGAGTT 565
QY 72 LeuG1uTrpIleSertYrgInValGluLyAsnLyTrAspAlaSerSerIleAspPhe 91
Db 564 CTGAGCTGATCAGTACCAAGTGAAGAAACAAGTACGAGCAAGCCCACTTGCCTTC 505
QY 92 SerArgCyAsnMetAspAlaAThrLeuCySerCyAlaIleuGluIleuAspG1yLeu 111
Db 504 TCAAGTGTGACATGATGGCGCACCTCTCAATTGTCCCTTGAAGAGCTGCGCTG 445
QY 112 ValPheG1yProLeuG1yAspG1nLeuH1eAlaG1nLeuArgAspLeuThrSerAsnSer 131
Db 444 GTCTTTGGGCTCTGGGGAGCAACTCCATGCCAGCTCGAGACTTCCAGCTT 385
QY 132 SerAspG1uLeuSertYrIleIleG1uLeuLeuLyAspG1yMetSerPheG1nG1u 151
Db 384 TCTGATGAGCTCAGTTGATCATTTGAGCTGTGGAGAAAGATGGCATGGCTTCCAGAG 325
QY 152 SerLeuG1yAspLeuG1yProPheAspG1nG1ySerProPheAlaG1nG1uLeuAsp 171
Db 324 GCCCTA--GACCCAGGCGCTTGTGACAGGCGAGCCCTTGGCCAGGAGCTGTGAG 268
QY 172 AspG1yArgG1nAlaSerProTyTyTyCySerThrTyG1yProG1yAlaProSerPro 191
Db 267 GAGGTCAAGAGCCAGCCCTCAACACCCCGGAGCTGTGGGAGAGAGCCCTCCCC 208
QY 192 G1ySerSerAspValSerThrAlaArgThrAlaThrProG1nSerSerH1eAlaSerAsp 211
Db 207 GGCAGCTGTGAGTCTCCAGCCAGGAGCTGTGTCTTCCGAGCTCCCACTCTCAGAC 148
QY 212 SerG1yG1ySerAspValAspLeuAspLeuThrG1uSerLyValPheProArgAspAsp 231
Db 147 TCCGTGAAGTGAAGTGAAGCTGTGATCCCACTGATGGAGAGCTCTTCCAGAGAGTGT 88
QY 232 PheThrAspTyTyLyLySG1yG1uProLySh1eG1yLyAspG1yArgG1yArgProArg 251
Db 87 TTTTCGTGACTGCAAGAGGGGATCCCAAGCAAGGAAACGGAACGAGCGGCCCGCA 28
QY 252 LyLeuSerLySG1uTyTrpAspCyS 260
Db 27 AAGCTGAGCAAGAGTACGTGAGCTGT 1

RESULT 13
US-09-833-263-853/c
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```
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-833-263-853

Alignment Scores:
Pred. No.: 9.88e-102      Length: 626
Score: 928.50           Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.78%      Indels: 1
DB: 9                    Gaps: 1

US-08-978-217-16 (1-371) x US-09-833-263-853 (1-626)

Qy 52 GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheTrpSerIleThrGlnVal 71
Db 624 GGTACAGAGAGAGGCGACCTGTTGGGGAAACGCCCACTTCTGTGAGAACCCAGCTT 565
Qy 72 LeuGluTrpIleSerTrpGlnValGluLysAlaSerIleThrSerIleAspPhe 91
Db 564 CTGAGCTGAGTCAAGCTCAAGTGAAGAGAACAGTACGCAAGCCGATGACCTTC 505
Qy 92 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeu 111
Db 504 TCACGATGTGACATGATGGGCGACCCCTGCAATTGTCCCTTGAGAGCTGGCTG 445
Qy 112 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131
Db 444 GTCTTTGGGCTCTGGGGGAGCAACTCCATCCAGCTCGAGACTCTCACTTCAGCTCT 385
Qy 132 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 151
Db 384 TCTGATGAGCTCAAGTTCATGATGATGCTGCTGAGAGAGATGGCATGGCTTCAGAG 325
Qy 152 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAsp 171
Db 324 GCCCTA---GACCCAGGGCCCTTTGACAGGGGAGGCCCTTTGGCCAGGAGCTGCTGAC 268
Qy 172 AspGlyArgAlaSerProTrpTrpCysSerThrTrpTrpGlyProGlyAlaProSerPro 191
Db 267 GAGCGTACAGCAAGCAGCCCTTACACCCCGGACGCTGTGGCGAGAGCCCTCCCTCC 208
Qy 192 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211
Db 207 GGCAGCTCTGACGCTCCACCGCAGGAGCTGTGCTTCGAGAGCTCCCACTCTCCAGAC 148
Qy 212 SerGlyGlySerAspValAspLeuAspLeuThrGlnSerIleValPheProArgAspAsp 231
Db 147 TCCGGTGAAGTGAAGTGAGCTGATCCCACTATGCAAGCTCTTCCCAAGGATGAT 88
Qy 232 PheThrAspTrpIleLysGlyGluProLysHisGlyLysArgLysArgGlyLysArgProArg 251
Db 87 TTTCGTACTGCAAGAGGGGGGATCCCAAGCAGCGGAGAGACGAGAACGAGCCGCCCGCA 28
Qy 252 LysLeuSerLysGlyTrpAspCys 260
Db 27 AAGCTGAGCAAAAGTACTGGGACTGT 1
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RESULT 14
US-10-025-380-853/C
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Benson, Heather
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Derrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-025-380-853

Alignment Scores:
Pred. No.: 9.88e-102      Length: 626
Score: 928.50           Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.78%      Indels: 1
DB: 13                  Gaps: 1

US-08-978-217-16 (1-371) x US-10-025-380-853 (1-626)

Qy 52 GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheTrpSerIleThrGlnVal 71
Db 624 GGTACAGAGAGAGGCGACCTGTTGGGGAAACGCCCACTTCTGTGAGAACCCAGCTT 565
Qy 72 LeuGluTrpIleSerTrpGlnValGluLysAlaSerIleThrSerIleAspPhe 91
Db 564 CTGAGCTGAGTCAAGCTCAAGTGAAGAGAACAGTACGCAAGCCGATGACCTTC 505
Qy 92 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeu 111
Db 504 TCACGATGTGACATGATGGGCGACCCCTGCAATTGTCCCTTGAGAGCTGGCTG 445
Qy 112 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131
Db 444 GTCTTTGGGCTCTGGGGGAGCAACTCCATCCAGCTCGAGAGCTCCCACTCTCCAGCTCT 385
Qy 132 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 151
Db 384 TCTGATGAGCTCAAGTTCATGATGATGCTGCTGAGAGAGATGGCATGGCTTCAGAG 325
Qy 152 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAsp 171
Db 324 GCCCTA---GACCCAGGGCCCTTTGACAGGGGAGGCCCTTTGGCCAGGAGCTGCTGAC 268
Qy 172 AspGlyArgAlaSerProTrpTrpCysSerThrTrpTrpGlyProGlyAlaProSerPro 191
Db 267 GAGCTGACAGCAAGCAGCCCTTACACCCCGGACGCTGTGGCGAGAGCCCTCCCTCC 208
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QY 192 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211
Db 207 GGCAGCTCTGACGCTCCACCGCAGGAGCTGTCCTTCTCCAGCTCCCTCTCAGAC 148
QY 212 SerGlyGlySerAspValAspLeuAspLeuThrGlnSerLysValPheProArgAsp 231
Db 147 TCCGGTGAAGTAGCGGAGCTGGATCCACGTAGTCAAGCTTCCCGCAGATGCT 88
QY 232 PheThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArg 251
Db 87 TTTCGTGACTGCAGAAAGGGGGGATCCCAAGCACCGGAAAGCGAAACGAGCCCGCCGA 28
QY 252 LysLeuSerLysGlyTyrTrpAspCys 260
Db 27 AACCTGAGCAAGAGTACTGGACTGT 1

RESULT 15
US-09-922-217-944/C
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodee, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Jiang, Yugui
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922.217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Alignment Scores:
Pred. No.: 2,29e-90 Length: 563
Score: 833.50 Matches: 157
Percent Similarity: 91.49% Conservative: 15
Best Local Similarity: 83.51% Mismatches: 15
Query Match: 41.99% Indels: 1
DB: 9 Gaps: 1

US-08-978-217-16 (1-371) x US-09-922-217-944 (1-563)
QY 73 GluTrpLysSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSer 92
Db 562 GACTGATCAGCTACCAAGTGGAGAAAGACAGACGACCGCATTTGACTTCTCA 503
QY 93 ArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeuVal 112
Db 502 CGATGTGACATGATGGCGCCACCTCTGCATTTGCTCCTTGAGGAGCTGCGTGGTC 443
QY 113 PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSer 132
Db 442 TTGGGGCTCTGGGGGACCACTCCATGCGCAGCTGCGAGACCTCACTTCAGCTCTTCT 383
QY 133 AspGluLeuSerTyrPheIleGluLeuLeuGluLysAspGlyMetSerPheGlnGluSer 152
Db 382 GATGAGCTCAGTTGATGATTTGAGCTGCTGAGAGAGATGCGATGGCTTCCAGAGGCC 323
QY 153 LeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAsp 172

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Db 322 CTA---GACCCAGGGCCCTTTGACACAGGCGAGCCCTTTGCCAGAGCTGCTGACGAC 266
QY 173 GlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyValAspSerProGly 192
Db 265 GGTACAGAACCCAGCCCTTACACACCCCGCAGCTGTGGCGCAGAGCCCTTCCCGGC 206
QY 193 SerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSer 212
Db 205 AGCTTGACGTCTCCACCGCAGGAGCTGGTGTCTTCGAGCTCCCACTCTCTCAGACTCC 146
QY 213 GlyGlySerAspValAspLeuAspLeuThrGlnSerLysValPheProArgAspPhe 232
Db 145 GGTGAAGTAGACGTGACCTGTGATCCACTGATGGCAGACTCTTCCCGCAGATGCTTT 86
QY 233 ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLys 252
Db 85 CGTGACTGCAGAGAGGGGATCCCAAGCACCGGAAAGCGAAACGAGCCCGCCGAAAG 26
QY 253 LeuSerLysGluTyrTrpAspCys 260
Db 25 CTGAGCAAGAGTACTGGACTGT 2

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Search completed: November 16, 2004, 03:19:18  
Job time : 637.855 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 14:00:59 ; Search time 114.561 Seconds  
(without alignments)  
2301.862 Million cell updates/sec

Title: US-08-978-217-16  
Perfect score: 1985  
Sequence: 1 MATCEISNVFSNYFNAMYS.....YKFGKNSGWMKEBEVGSRN 371

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Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-DEV TIMEOUT=120 -MARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
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Database :

Issued Patents NA.\*  
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6: /cgn2\_6/ptodata/1/ina/backfillseq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1712	86.2	1907	4	US-09-300-958A-27
2	1712	86.2	1907	4	US-09-570-593-4
3	1712	86.2	1920	1	US-08-746-789A-1
4	803	40.5	502	4	US-09-389-681-282
5	803	40.5	502	4	US-09-620-405B-282
6	803	40.5	502	4	US-09-339-338-282
7	803	40.5	502	4	US-09-433-826B-282
8	803	40.5	502	4	US-09-604-287A-282
9	803	40.5	502	4	US-09-834-759-282
10	803	40.5	502	4	US-09-590-751A-282
11	586	29.2	5427	3	US-09-009-913-2
12	580	29.2	5510	3	US-09-009-913-3

13	580	29.2	5667	3	US-09-009-913-4	Sequence 4, Appli
14	543	27.4	852	3	US-09-020-956-44	Sequence 44, Appl
15	543	27.4	852	3	US-09-030-607-44	Sequence 44, Appl
16	543	27.4	852	3	US-09-439-313-44	Sequence 44, Appl
17	543	27.4	852	3	US-09-352-616A-44	Sequence 44, Appl
18	543	27.4	852	4	US-09-232-149A-44	Sequence 44, Appl
19	543	27.4	852	4	US-09-159-812-44	Sequence 44, Appl
20	543	27.4	852	4	US-09-636-215-44	Sequence 44, Appl
21	543	27.4	852	4	US-09-685-166A-44	Sequence 44, Appl
22	543	27.4	852	4	US-09-115-453-44	Sequence 44, Appl
23	543	27.4	852	4	US-09-688-489-44	Sequence 44, Appl
24	543	27.4	852	4	US-09-679-426-44	Sequence 44, Appl
25	507	25.5	848	3	US-09-009-913-38	Sequence 38, App
26	435.5	21.9	2280	3	US-09-009-913-6	Sequence 6, Appli
27	435.5	21.9	2498	3	US-09-016-434-927	Sequence 927, App
28	435.5	21.9	237	4	US-08-368-281-1	Sequence 1, Appli
29	270	13.6	2375	1	US-08-368-281-1	Sequence 1, Appli
30	238.5	12.0	3240	1	US-08-368-281-3	Sequence 3, Appli
31	238.5	12.0	3240	1	US-08-878-177-3	Sequence 3, Appli
32	234.5	11.8	1528	3	US-09-570-593-1	Sequence 1, Appli
33	233.5	11.8	1894	4	US-09-055-113-2	Sequence 2, Appli
34	233.5	11.8	1905	3	US-09-570-593-12	Sequence 12, Appl
35	233.5	11.8	3117	4	US-08-306-691B-43	Sequence 43, Appl
36	225.5	11.4	1604	5	PCT-US93-06251-9	Sequence 9, Appli
37	225.5	11.4	1604	5	US-08-878-177-1	Sequence 1, Appli
38	225	11.3	1447	3	US-08-343-443B-3	Sequence 3, Appli
39	225	11.3	2938	2	US-09-344-579-1	Sequence 1, Appli
40	220	11.1	2268	3	US-09-360-779-1	Sequence 1, Appli
41	214	10.8	1752	3	US-09-435-335-1	Sequence 1, Appli
42	214	10.8	1933	4	US-09-920-759-3	Sequence 3, Appli
43	214	10.8	1933	4	US-09-920-759-10	Sequence 10, Appl
44	214	10.8	1976	4	US-09-270-767-10903	Sequence 10903, A
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#### ALIGNMENTS

RESULT 1  
US-09-300-958A-27  
; Sequence 27, Application US/09300958A  
; Patent No. 6495319  
; GENERAL INFORMATION:  
; APPLICANT: McClelland, Michael  
; APPLICANT: Welsch, John  
; APPLICANT: Tremble, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/09/300,958A  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-300-958A-27  
  
Alignment Scores:  
Pred. No.: 6.79e-177  
Score: 1712.00  
Percent Similarity: 92.74%  
Best Local Similarity: 86.83%  
Query Match: 86.25%  
DB: 4  
Gaps: 2  
Length: 1907  
Matches: 323  
Conservative: 22  
Mismatch: 25  
Indels: 2  
US-08-978-217-16 (1-371) x US-09-300-958A-27 (1-1907)

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QY      21 SerGluAspProThrIleuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeu 39
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QY      60 SerGluArgProGlnPheTrpSerIleValIleuGluTrpIleSerTyrGlnVal 79
Db      276 GGGGAAACAGCCCGAGTTCTGTGCAAGACGAGGTTCTGAGCTGATCAGTACCAAGTG 335
QY      80 GluIleAsnIleTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyVal 99
Db      336 GAGAAAGACAGTACGACGCAAGCGCATTCACAGATGTGACATGATGGCGC 395
QY      100 ThrIleuSerCysAlaIleuGluIleuArgLeuValPheGlyProLeuGlyAspGln 119
Db      396 ACCCTCTGCATTTGCTTGGAGAGCTGCTGCTGCTTGGGCTCTGGGGAGCA 455
QY      120 LeuHisAlaGlnIleuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleIle 139
Db      456 CTCATGCCAGCTGCGAGACCTCATTCCAGCTCTTCTGATGAGTCACTGATGATCAT 515
QY      140 GluIleuLeuGluIleAspGlyMetSerPheGlnGluSerIleuGlyAspLeuGlyProPhe 159
Db      516 GAGCTGTGAGAAAGATGAGTGCATGCTTCCAGAGGAGCCCTA---GACCCAGGCGCTTT 572
QY      160 AspGlnIleSerProPheAlaGlnIleuLeuAspAspGlyArgGlnAlaSerProTyr 179
Db      573 GACCAAGGACGCCCTTCTGCGAGAGCTGCTGAGACACGCTCAGCAAGCAGCCCTTAC 632
QY      180 TyrCysSerThrTyrGlyProGlyValProSerProGlySerSerAspValSerThrAla 199
Db      633 CACCCCGCAGCTGTGCGAGAGAGCCCTCCCTGAGCTGCTGACGCTCCACCGCA 692
QY      200 ArgThrIleAlaThrProGlnIleSerSerHisAlaSerAspSerGlyGlySerIleValAspLeu 219
Db      693 GGAAGCTGTGCTTCTCGAGCTCCCACTCCCACTCCAGTGCAGTGCAGTGCAGTGC 752
QY      220 AspLeuThrIleuSerIleValPheProArgAspAspPheThrAspTyrIleValGlyGlu 239
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QY      240 ProIleHisGlyIleValArgIleValArgProArgIleuSerIleuGlyTyrTrpAsp 259
Db      813 CCCAAGACACGGGAAGCGGAACGAGCGCGGCCCGAAGAGCTGAGCAAGAGTACTGGAC 872
QY      260 CysLeuGlnIleuIleuSerIleValAlaProArgGlyThrHisIleuTrpGluPheIle 279
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QY      280 ArgAspIleuIleHisProGluLeuAsnGluGlyLeuMetIleTrpGluAsnArgHis 299
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QY      300 GluGlyValPheIleuSerIleuArgSerGluAlaValAlaGlnIleuTrpGlyGlnVal 319
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QY      320 LysAsnSerAsnMetThrTyrGluValLeuSerArgAlaMetArgTyrTyrIleValArg 339
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QY      340 GluIleuGluIleuArgValAspGlyArgArgLeuValTyrIleAspPheGlyValAsnSer 359
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RESULT 2
US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xun, Hong
; APPLICANT: Hartwe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; FILE REFERENCE: CANCER
; CURRENT APPLICATION NUMBER: US/09/570,593
; PRIOR FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
; OTHER INFORMATION: protein.
US-09-570-593-4

Alignment Scores:
Pred. No.: 6,79e-177 Length: 1907
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: 4 Gaps: 2

US-08-978-217-16 (1-371) x US-09-570-593-4 (1-1907)
QY      1 MetAlaIaThrCysGluIleSerAsnValPheSerAntyrPheAsnAlaMetTyrSer 20
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QY      40 ValIeuThrIleuAsnAngInglInMetThrIleuGluGlyProGluValAspSerTrpThr 59
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QY      60 SerGluArgProGlnPheTrpSerIleValIleuGluTrpIleSerTyrGlnVal 79
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QY      140 GluIleuLeuGluIleAspGlyMetSerPheGlnGluSerIleuGlyAspLeuGlyProPhe 159
Db      516 GAGCTGTGAGAAAGATGAGTGCATGCTTCCAGAGGAGCCCTA---GACCCAGGCGCTTT 572

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Qy 160 AspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
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Qy 180 TyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
Db 633 CACCCCGCAGCTGTGCGCAGAGGAGCCCTCCCTCCCTGAGCTGTGACGTCTCCACCGCA 692
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 693 GGGAGCTGCTCTTCGAGACTCCCACTCTCCAGACTCCGAGTGAAGTGAAGTGAAGTGA 752
Qy 220 AspLeuThrGluSerLeuValPheProArgAspAspPheThrAspTyrLeuValGlu 239
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Qy 240 ProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTrpAsp 259
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Qy 260 CysLeuGlnGlyLysLysSerLysHisAlaProArgLysThrHisLeuTyrGluPheIle 279
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Db 933 GGGAGACTCTCATCCACCGGAGCTCAAGAGGAGCTCATGAGAGGAGATCGGCAT 992
Qy 300 GlnGlyValPheLysPheLeuArgSerGlyAlaValAlaGlnLeuTyrGlnLysLys 319
Db 993 GAAAGGCTCTTCAAGTTCCTGCGCTCGAGGCTGTGCTCCCACTATGGGGCCAAAGAAA 1052
Qy 320 LysAsnSerAsnMetThrTyrGlyLysLeuSerArgAlaMetArgTyrTyrLysArg 339
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Db 1173 GGCTGGAAGAGAGAGAGGTTCTCCAGAGTCCGAGAC 1208

RESULT 3
US-08-746-789A-1
; Sequence 1, Application US/08746789A
; Patent No. 5789200
GENERAL INFORMATION:
APPLICANT: Ismail Kola, Martin J. Tymms, Christine Deebuck
TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road, P.O. Box 1559
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
SOFTWARE: MICROSOFT WORD
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/746, 789A
FILING DATE: No. 5789200ember 15, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:

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NAME: William T. Han
REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: ATG 50024
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610 270 5219
TELEFAX: 610 270 4026
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1920
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: NO
US-08-746-789A-1

Alignment Scores:
Pred. No.: 6,86e-177 Length: 1920
Score: 1712.00 Matches: 323
Percent Similarity: 92.74% Conservative: 22
Best Local Similarity: 86.83% Mismatches: 25
Query Match: 86.25% Indels: 2
DB: 1 Gaps: 2

US-08-978-217-16 (1-371) x US-08-746-789A-1 (1-1920)
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Qy 21 SerGluAspProThrLeuAlaProAlaProPro--ThrThrPheGlyThrGluAspLeu 39
Db 175 TGGAGAGATCCACCTTGGAGCTGTGCTCCCTGCTGCGACCTTTGGGCGCATGACTTG 234
Qy 40 ValLeuThrLeuAsnAngGlnGlnMetThrLeuGlnGlyProGlnLysAlaSerTrpThr 59
Db 235 GACTACACCTGAGCAACCCCGAGTGTGATGAGGATGACAGAGAGCTAGCTGGTGG 294
Qy 60 SerGluArgProGlnPheThrPheLysTrpGlnValLeuGlnTyrLysSerGlnVal 79
Db 295 GGGAAACAGCCCGAGTTCGTGTCGAAAGCGAGCTTCTGACTGATCGACTACCAAGTG 354
Qy 80 GlnLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAla 99
Db 355 GAGAAAGACAGATGACACCAAGCCGACATTTGACTTCTCAAGATGATGATGGAGGCC 414
Qy 100 ThrLeuCysSerCysAlaLeuGlnGluLeuValGluValPheGlyProLeuGlyAspGln 119
Db 415 ACCCTCGCAATTGTGCTTGGAGAGCTGCGCTGCTTGGGCGCTCGGGGAGCAAA 474
Qy 120 LeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGlnLeuSerTrpIleIle 139
Db 475 CTCATGCTCCAGCTGGAGACCTCACTTCCAGCTTCTGATGAGCTCAAGTGGATCAT 534
Qy 140 GlnLeuLeuGlnLysAspGlyMetSerPheGlnGlnLysLeuGlyAspLeuGlyProPhe 159
Db 535 GAGCTCTGAGAGAGATGAGATGAGCTTCCAGAGAGCCCTA--GACCAGGCGCCCTT 591
Qy 160 AspGlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyArgGlnAlaSerProTyr 179
Db 592 GACCAAGGAGGAGCCCTTTCGCCAGAGCTGCTGAGAGCGTCAAGCGTCAAGCAAGCCCTAC 651
Qy 180 TyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAla 199
Db 652 CACCCCGCAGCTGTGCGCAGAGGAGCCCTCCCTCCCTGAGCTGTGACGTCTCCACCGCA 711
Qy 200 ArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219
Db 712 GGGAGCTGCTCTTCGAGACTCCCACTCTCAAGATCCGAGTGAAGTGAAGTGAAGTGA 771
Qy 220 AspLeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGlu 239
Db 772 GATCCCACTGATGAGCAAGCTTCCCAAGAGTGTTCGTGACTGCAAGAGAGGAGGAGAT 831

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QY 265 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgPheIleLeu 284  
DB 246 AAGAGCAAGACCGCCGACAGGACCCACCTGTGGAGTTCATCCGGACATCCCTCATC 305  
QY 285 HisProGluLeuAnsiGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys 304  
DB 306 CACCCGAGCTCAACGAGGGGCTCATGAAAGTGGAGAAATCGGCATGAAAGCGCTTCAAG 365  
QY 305 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysSerAsnMet 324  
DB 366 TTCCTGGCTCCGAGCTGTGGCCCACTATGGGGCCAAAAGAAAGAACAGCAACATG 425  
QY 325 ThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGluIleLeuGluArg 344  
DB 426 ACCTACGAGAAGCTGAGCCGGCCCATGAGTACTACTACAAACGGAGATCTCGAAGCG 485  
QY 345 ValAspGlyArgArg 349  
DB 486 GTGATGCGCGGCGA 500  
RESULT 6  
US-09-339-338-282  
; Sequence 282, Application US/09339338A  
; Patent No. 6573368  
; GENERAL INFORMATION:  
; APPLICANT: Yugui, Jiang  
; APPLICANT: Dillon, Devin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C2  
; CURRENT APPLICATION NUMBER: US/09/339,338A  
; NUMBER OF SEQ ID NOS: 315  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-339-338-282  
Alignment Scores:  
Pred. No.: 1,63e-78 Length: 502  
Score: 803.00 Matches: 149  
Percent Similarity: 93.33% Conservative: 5  
Best Local Similarity: 90.30% Mismatches: 11  
Query Match: 40.45% Indels: 0  
Gaps: 0  
US-08-978-217-16 (1-371) x US-09-339-338-282 (1-502)  
QY 185 GLYProGlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 204  
DB 6 GGGCGAGAGACCCCTCCCGGAGCTCTGACGCTCCACCGGAGGACTGGTGCTTCT 65  
QY 205 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 224  
DB 66 CGAGAGCTCCACCTCCTGAGCTCGGTGGAAGTGAAGTGAAGCTGAGTCCGACTGATGGC 125  
QY 225 LysValPheProArgAspAspPheThrAspTrpLysLysGluProLysHisGlyLys 244  
DB 126 AAGCTCTTCCCGACGATGTTTTCGTGACTGCAAGAGGGGATCCCAAGCAGCGGAAG 185  
QY 245 ArgLysArgGlyArgProArgLysLeuSerLysGluTrpAspCysLeuGluGlyLys 264  
DB 186 CGGAAAGAGAGCGCGCCCGAAGAGCTGAGCAAGAGTGAAGGAGCTGTCTGAGGGGCAAG 245  
QY 265 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgPheIleLeu 284  
DB 246 AAGAGCAAGACCGCCGACAGGACCCACCTGTGGAGTTCATCCGGACATCCCTCATC 305  
QY 285 HisProGluLeuAnsiGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys 304

DB 306 CACCCGAGCTCAACGAGGGGCTCATGAAAGTGGAGAAATCGGCATGAAAGCGCTTCAAG 365  
QY 305 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysSerAsnMet 324  
DB 366 TTCCTGGCTCCGAGCTGTGGCCCACTATGGGGCCAAAAGAAAGAACAGCAACATG 425  
QY 325 ThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGluIleLeuGluArg 344  
DB 426 ACCTACGAGAAGCTGAGCCGGCCCATGAGTACTACTACAAACGGAGATCTCGAAGCG 485  
QY 345 ValAspGlyArgArg 349  
DB 486 GTGATGCGCGGCGA 500  
RESULT 7  
US-09-433-826B-282  
; Sequence 282, Application US/09433826B  
; Patent No. 6579973  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugui  
; APPLICANT: Dillon, Devin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C4  
; CURRENT APPLICATION NUMBER: US/09/433,826B  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-433-826B-282  
Alignment Scores:  
Pred. No.: 1,63e-78 Length: 502  
Score: 803.00 Matches: 149  
Percent Similarity: 93.33% Conservative: 5  
Best Local Similarity: 90.30% Mismatches: 11  
Query Match: 40.45% Indels: 0  
Gaps: 0  
US-08-978-217-16 (1-371) x US-09-433-826B-282 (1-502)  
QY 185 GLYProGlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 204  
DB 6 GGGCGAGAGACCCCTCCCGGAGCTCTGACGCTCCACCGGAGGACTGGTGCTTCT 65  
QY 205 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 224  
DB 66 CGAGAGCTCCACCTCCTGAGCTCGGTGGAAGTGAAGTGAAGCTGAGTCCGACTGATGGC 125  
QY 225 LysValPheProArgAspAspPheThrAspTrpLysLysGluProLysHisGlyLys 244  
DB 126 AAGCTCTTCCCGACGATGTTTTCGTGACTGCAAGAGGGGATCCCAAGCAGCGGAAG 185  
QY 245 ArgLysArgGlyArgProArgLysLeuSerLysGluTrpAspCysLeuGluGlyLys 264  
DB 186 CGGAAAGAGAGCGCGCCCGAAGAGCTGAGCAAGAGTGAAGGAGCTGTCTGAGGGGCAAG 245  
QY 265 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgPheIleLeu 284  
DB 246 AAGAGCAAGACCGCCGACAGGACCCACCTGTGGAGTTCATCCGGACATCCCTCATC 305  
QY 285 HisProGluLeuAnsiGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys 304  
DB 306 CACCCGAGCTCAACGAGGGGCTCATGAAAGTGGAGAAATCGGCATGAAAGCGCTTCAAG 365  
QY 305 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysSerAsnMet 324

Db	366	TTCTCGGCTCCGAGCGTGTGGCCCACTATGSGGGCAAAAAGAAAGACGACATG	425
QY	325	ThTtYrGluLylLeuSerAlaMeChArgIYrYrLYLVAArgLulLeuGluArg	344
Db	426	ACCTACGAGAGAGCTGAGCCGGGCGCATGAGTACTACTCAAAACGGAGACTCTGGAACGG	485
QY	345	ValAspGlyAArgArg	349
Db	486	GTGGATGGCCGGCGCA	500

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RESULT 8
US-09-604-287A-282
; Sequence 282. Application US/09604287A
; Patent No. 6586572
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugui
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITL OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604.287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-282

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Alignment Scores:	
Pred. No.:	1,63e-78
Score:	803.00
Percent Similarly:	93.33%
Percent Local Similarity:	90.30%
Best Query Match:	40.45%
BB:	4
Length:	502
Matches:	149
Conservative:	5
Mismatches:	11
Indels:	0
Gaps:	0

US-08-978-217-16 (1-371) x US-09-604-287A-282 (1-502)

QY 185 GLPProGVLAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 204

Db 6 GGGCGAGAGACCCCTCCCGGAGACTTGACGTCTCACCGAGGAGCTGGCTTCT 65

QY 205 GlnSerSerHisIaIaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGlnSer 224

Db 66 CGAGCTCCCACTCCTCAAGACTCGGGTGAATGACGTGAACCTGGATCCACACTGATGGC 125

QY 225 LysValPheProArgAspAspPheThrAspTyrLysLysGlyGluProLysHisGlyLys 244

Db 126 AAGCTCTTCCCGGCATGATTTCGTGACTGCCAAGAGGGGGATCCCAACACGGGAG 185

QY 245 ArgLysArgGlyAArgProArgLysLeuSerLysGluTyrTyrPAspCysLeuGlnGlyLys 264

Db 186 CGGAACGAGAGCCCGGCCGGAAGCTGACCAAGAGTACTGGAGATGTCTGAGAGGCAG 245

QY 265 LysSerLysHisIaIaProArgGlyThrHisLeuThrPGLuPheIleArgAspIleLeuIle 284

Db 246 AAGAGCAAGACGCGCCCAAGGACCCACCTGTGGAGTTTCATCCGGGACATCTCATC 305

QY 285 HisProGluLeuAsnGlnGlyLysLeuNectLysTyrPGLuAsnArgHisGlnGlyValPheLys 304

Db 306 CAACCCGAGACTCAACAGAGGCTTCATGAAGTGGGGAATCCGGCATGAAGCGCTTTCAG 365

QY 305 PheLeuArgSerGluIaValIaGlnLeuThrPGLysGlnLysLysAsnSerAsnMet 324

Db 366 TTCCTGGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAGAAAAGAACGACATG 425

QY	DB	QY	DB
325	344	345	486
ThrTyrGlnIshLeuSerTgAlaMetcArgTyrTyrTlvsAsgGlnIleLeuGlnArg	486	ValAspGlyArgArg	GtGgATgGCGCGCGA
426	485		
ACCTAAGAGAACTGAGCCGGCCATGAGTACTACTCAAAACGGAGATCCTGGAACGG			

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RESULT 9
US-09-834-759-282
; Sequence 282, Application US/09834759
; Patent No. 6680197
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiansheng
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 347
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-834-759-282

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Alignment Scores:	
Pred. No.:	1.63e-78
Score:	803.00
Percent Similarity:	93.33%
Best Local Similarity:	90.30%
Query Match:	40.45%
DB:	4
	Gaps: 0

QY 185 GTPGIGLVALProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro 204  
Db 6 GGGCGAGAGGCCCTCTCCCGGAGCGCTCAAGCTTCCACCGAGGGAGCTGGCGTCT 65  
QY 205 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 224  
::: :::  
Db 66 CGAGGCTCCACCTCCTCAAGACTCGGATGAGATGACGCGACCTGATCCCATGATGAGGC 125  
QY 225 LysValPheProArgAspAspPheThrAspTyrLysLysGlyGluProCysHisGlyLys 244  
::: :::  
Db 126 AAGCTCTTCCCGAGCGATGCTTTCTGTACTGCAAGAAAGGGGAGATCCCAAGCAGGGAG 185  
QY 245 ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys 264  
186 CGGAAACGAGGCGCGGCCCGGAAAGCTGAGCAAAAGAGTCTGGAGCTGCTCGAGGGCAAG 245  
QY 265 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspIleLeuIle 284  
Db 246 AAGAGCAAGCAGCGGCCGAGAGGCACCACTGTGGAGTTTCATCCGGAGATCTTCATC 305  
QY 285 HisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys 304  
Db 306 CACCCGAGACTCAAGAGGGCGCTCATGAAGTGGAGAAATCGCATGAAGCGCTTTCAG 365  
QY 305 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysAsnSerAsnMet 324  
Db 366 TTCCTCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAAAAGAACAGCAACATG 425  
QY 325 ThrTyrGluLysLeuSerArgAlaMetLeuGlyTyrTyrTyrLysArgGluIleLeuGluArg 344

Db	422	ACCTAAGAGAAAGCTGAGCCGGGCGATGAGTACTACTA	CAAAACGGAGAAATCTCTGAAACGG	485
Qy	345	ValAepGIyArGrG	349	
Db	486	GTGGATGGCCGGCGGA	500	
RESULT 10				
	US-09-590-751A-282			
	Sequence 282, Application US/09590751A			
	Patent No. 6756477			
	GENERAL INFORMATION:			
	APPLICANT: Yugui, Jiang			
	APPLICANT: Dillion, Davin C.			
	APPLICANT: Mitcham, Jennifer L.			
	APPLICANT: Xu, Jiangchun			
	APPLICANT: Harlocker, Susan L.			
	TITLE OF INVENTION: COMPOSITIONS FOR THE THERAPY AND			
	TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER			
	FILE REFERENCE: 210121.470C6			
	CURRENT APPLICATION NUMBER: US/09/590,751A			
	CURRENT FILING DATE: 2000-06-08			
	NUMBER OF SEQ ID NOS: 479			
	SOFTWARE: FastSeq for Windows Version 3.0			
	SEQ ID NO 282			
	LENGTH: 502			
	TYPE: DNA			
	ORGANISM: Homo sapiens			
	US-09-590-751A-282			
Alignment Scores:				
	Pred. No.:	1.63e-78	Length:	502
	Score:	805.00	Matches:	149
	Percent Similarity:	93.33%	Conservative:	5
	Best Local Similarity:	90.30%	Mismatches:	11
	Query Match:	40.45%	Indels:	0
	DB:	4	Gaps:	0
US-08-978-217-16 (1-371) x US-09-590-751A-282 (1-502)				
Qy	185	GIYProGIIyAlAProSerProGIySeSerAapValSerThrAlaArgThrAlaThrPro	204	
Db	6	GGGGCAGAGACCCCTCCCGGACGCTGACGCTCCACCGCAGGAGACTGGGCTTCT	65	
Qy	205	GIInSerSerHiAlaSerAapSerGIyGIySerAapValAepLeuAepLeuThrGIUser	224	
Db	66	CGAGAGCTCCCACTCCCTCAGACTCCGGTGAAAGTGACGTGACCTGGATCCCACTGATGCGC	129	
Qy	225	LyvValAPheProArGrAapAapPheThrAapTyTlyvLyvGIyGIyProLyvHiGIyLyv	244	
Db	126	AAAGCTCTCCCGCAGCATGGTGTTCGTGACTGCAGAAAGGGGAGATCCCAACGAGGAG	185	
Qy	245	ArgLyvArGIyArGrProArGrLyvLeuSerLyvGIyTyTTPArPCyLeuGIyLyv	264	
Db	186	CGAAACGAGGCGCGGCCCGGAAAGCTGACGAAAGAGTACTGGAGCTGTCTGAGGGCAG	245	
Qy	265	LyvSerLyvHiAlaProArGrGIyThrHiSleuTPGIupheIIeArgApsIIeLeuIIe	284	
Db	246	AAAGGCAAGCAGCGCGCCAGAGGCACTGTGGAGATTCACTCGGAGCATCTCATC	305	
Qy	285	HiAProGIyLeuAaenGIyLeuMetLyvTPGIuAaenAIGHIeGIyValPheLyv	304	
Db	306	CACCCGAGCTCAACAGAGGCGCTCAAGAAATGGGAGAAATCGGCAAGAGGGGTCTTCAAG	365	
Qy	305	PheLeuArGrSerGIyAlaValAlaGInLeuTPGIyGInLyvLyvLyvAaenSerAaenMet	324	
Db	366	TTCTCTGGCTCCAGGCTGTGTGGCCCAACTATATGGGCCAAAGAAAAGAAACAGCACTG	425	
Qy	325	ThrTyGIyLyvLeuSerArGrAlaMetArGIyTyTlyvLyvArGIyIIeLeuGIyArG	344	
Db	426	ACCTAAGAGAAAGCTGAGCCGGGCGATGAGTACTACTA	CAAAACGGAGATCTCTGAAACGG	485
Qy	345	ValAepGIyArGrG	349	

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Db          486 GTGATGCCGCAG 500

RESULT 11
US-09-009-913-2
Sequence 2, Application US/0900913
Patent No. 6087485
GENERAL INFORMATION:
APPLICANT: Axy's Pharmaceuticals, Inc.
TITLE OF INVENTION: Asthma Related Genes
NUMBER OF SEQUENCES: 339
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bozicevic & Reed, LLP
STREET: 285 Hamilton Ave, Suite 200
City: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,913
FILING DATE: 21-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
FILING DATE:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: SEQ-4P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3231
TELEFAX: 650-327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5427 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-009-913-2

Alignment Scores:
Pred. No.: 3,34e-53 Length: 5427
Score: 586.00 Matches: 141
Percent Similarity: 50.26% Conservative: 51
Best Local Similarity: 36.91% Mismatches: 86
Query Match: 29.52% Indels: 104
DB: 3 Gaps: 11

US-08-978-217-16 (1-371) x US-09-009-913-2 (1-5427)

QY      27 AlAProAlaProProThrThr-----PheGIrHgIuaSpLeuValleuThr 42
       ||| ::|||::|||::||| | | | | | | | | | | | | | | | | | | | |
Db      84 GCtCGCTCCCTTCACATCACGACCAAGCATATTGGATTTCACCCAGAAATCTTAGTA--- 140
QY      43 LeuAsnAbngInglInMeThrIeuGlugly----- 52
       |||:::| | | | | | | | | | | | | | | | | | | | | | | | | |
Db      141 -----AAAGAAGTCAATGTCTTGGAAGAGGTGTGTAAATAATTCACACCCGGCAAC 194
QY      53 -----ProGluuYsaIaseTrpThrserGlu----- 61
Db      195 AACCTCTTCACCAGCCGCCAGCTGGACACAGACTCTCCACGTGCATATTTCCAGT 255
QY      62 -----ArgProGlnPheTrpSerLySThrGlnVal 71
       ||| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      255 GGGTTTTTTGGAGCGCAGTGGCATGAATTCATCTCTCAAGTCTGGACCAAGTACCAAGTG 314
QY      72 IeuGIuTrpIleSerTyrgInVaIgIuuYsaenLySYraApAlaSerSerIleaspPhe 91

```

```

Db      315 TGGAGAGGCTGAGCACTCTGAGCAACCAAGTCGATGCAATTGATCTCTTC 374
Qy      92 SerArgCysaenmeaerGlyAlaThrLeuCyseerCysAlaLeuGluLeuArgLeu 111
Db      375 CAAGAGTTCACATCAACGGCGAGCACTCTGCGAGCATGAGTTGGACGAGTTCAACCCG 434
Qy      112 ValPheGlyProLeuGlyLeuGlnLeuHisAlaGlnLeuArgLeuThrSerAsn-- 130
Db      435 GCGGACGAGGAGCGCGGAGCTCTCTACAGCAACTTGGACATGCAAGTGGAAACGCG 494
Qy      131 -----SerSerArgGluLeuSerTrpIleIleGluLeuGluGlyuysaerGlyMetSer 148
Db      495 CAGTCAGTAGTAC-----CTG 512
Qy      149 PheGlnGluSerLeuGlyLeuArgLeuGlyProPheArgGlnGlySerProPheAlaGlnGly 168
Db      513 TTCACATCCACACACATGCTATTCGACAGTCAACCAACTGAGCT-----TCC 563
Qy      169 LeuLeuArgPheArgGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAla 188
Db      564 ATCATGAACACCTGGAAGACGAGAACTATTATATGACCAACTATGCT----- 614
Qy      189 ProSerProGlySerSerArgValSerThrAlaArgThrAlaThrProGlnSerSerHis 208
Db      615 -----AGCAC----- 620
Qy      209 AlaserArgSerGlyGlySerArgValaAspLeuArgLeuThrGluSerLysValPhePro 228
Db      621 -----GTAGATTGTTGGACACCAAACTTTCTGC 650
Qy      229 ArgAspArgPhe-----ThrAspTyrLysGlyGlyGluProLysHisGly 243
Db      651 CCGGCTCAGATCTTCATGACACCAACCACTCTCTCTGTCAGAGTCACTGATATG 710
Qy      244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpArgCysLeuGluGly 263
Db      711 AAAAAGGAGGAGACCCCTGCGCAAGTCCACCA----- 749
Qy      264 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgPheLeu 283
Db      750 -----AAGCAACACCGAGAGGAGCTCATTTAGGAAATTCATCCCGACATCTC 800
Qy      284 IHisProGluLeuArgGluGlyLeuMetLysTrpLysAsnArgHisGluGlyValPhe 303
Db      801 TTAAACCCACAGAACCCAGATTAATAATGGAGAGCCGATCTGAGGCGCTTTC 860
Qy      304 LysPheLeuArgSerGlyAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323
Db      861 AGGTTCTTGAATCAGAGGAGTGGCTGACCTATGGGGTAAAAAGAAACAACAGCAGC 920
Qy      324 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGlu 343
Db      921 ATGACCATTAATAAAGCTCAACCGCATATGAGATTAACTAATAAAGAAATACTCGAG 980
Qy      344 ArgValaAspGlyArgGluLeuValTyrLysPheGlyLysAsnSerSerGlyTyrPheGlu 363
Db      981 CGGTGGATGAGAGAGAGCTGTATATAATTGGGAAGATGCCGAGATGAGAGAA 1040
Qy      364 GluGlu 365
Db      1041 AATGAA 1046

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STREET: 285 Hamilton Ave, Suite 200
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,913
FILING DATE: 21-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: SEQ-4P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3231
TELEFAX: 650-327-3231
TEXT:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5510 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-009-913-3

Alignment Scores:
Pred. No.: 1,54e-52 Length: 5510
Score: 580.00 Matches: 129
Percent Similarity: 54.43% Conservative: 43
Best Local Similarity: 40.82% Mismatches: 78
Query Match: 29,22% Indels: 66
Gaps: 7

US-08-978-217-16 (1-371) x US-09-009-913-3 (1-5510)
Qy      58 TrpThrSerGluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyr 77
Db      356 TGGCATGAATTCATCTCTGACTGACGACCAAGTACAGAGTGGAGGCTCCAGCAC 415
Qy      78 GlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAsp 97
Db      416 CTCCTGACACCAACAGCTGATGCCAATGTATCTCTTCCAGAGTTGACATCAAC 475
Qy      98 GlnAlaThrLeuCyseerCysAlaLeuGluLeuArgLeuValPheGlyProLeuGly 117
Db      476 GCGGACACCTCTGCGAGCATGAGTTTGCAGAGTTCAACCGGCGGCGGAGGCGG 535
Qy      118 AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerArgGlu 134
Db      536 CAGCTCCTTACAGCAACTTGACGATCTGAAGTGAACGGCCAGTCAGTAGTGAC--- 592
Qy      135 LeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGly 154
Db      593 -----CTGTTCCAGTCCACACCAAT 613
Qy      155 AspLeuGlyProPheArgGlnGlySerProPheAlaGlnGluLeuLeuAspArgGlyArg 174
Db      614 GTCATTTGCAAGCTGAACAACTGAGCT-----TTCATCTGAACACCTGGAAA 664
Qy      175 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 194
Db      665 GACGAGAACTATTATATGACCACTATGCT----- 697
Qy      195 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerArgSerGlyGly 214

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Db 698 -----AGCACA----- 703
Qy 215 SerArgValAspLeuAspLeuThrGluSerLeuValPheProArgAspAspHe----- 232
Db 704 -----GTAGATTGTTGGACAGCAAACTTTGCGGGGCTCAGATCTCCATG 751
Qy 233 -----ThrsArgTyrLysLysGluProLysHisGluLysAspArgLysArgGlyArg 249
Db 752 ACAACACACAGCTACCTTCTGTTGACAGCTACCTGATATGAAAAAGAGCAAGACCCC 811
Qy 250 ProArgLysLeuSerLysGluTyrTyrAspCysLeuGluGluLysLysSerLysHisAla 269
Db 812 CTTGCCAAGTCCACACCAAA-----AGCACAAC 841
Qy 270 ProArgLysThrHisLeuTyrGluPheLeuArgAspLeuLeuLeuHisProGluLeuAsn 289
Db 842 CCGAGAGGAGCTACATTATGGGAATTCATCCGCGACATCTTGAACCCAGACCAAGAAC 901
Qy 290 GluGluLeuMetLysTyrGluAsnArgHisGluGluValPheLysPheLeuArgSerGlu 309
Db 902 CCAAGATTAAATAATGGGAAGACCGATCTGAGGGCGCTTTCAGGTTCTTGAATTCAGAG 961
Qy 310 AlaValAlaGlnLeuTyrGluGlnLysLysAsnSerAsnMetThrTyrGluLysLeu 329
Db 962 GCAGTGGCTAGCTATGGGTTAAAAAGAACACACAGCAGCATGACCTTGAAGACTC 1021
Qy 330 SerArgAlaMetArgTyrTyrTyrLysArgGluLysLeuGluLysArgValAspGlyArg 349
Db 1022 AGCCGAGCTATGAGATTTACTACAAAGAAATACTGAGCGTGGATGACGAAAGA 1081
Qy 350 LeuValTyrLysPheGluLysAsnSerSerGlyTyrLysGluGluGlu 365
Db 1082 CTGTATATATAATTGGGAAGAAATGCCGAGAGTGAAGAAATGAA 1129

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## RESULT 13

US-09-009-913-4

Sequence 4, Application US/09009913

Patent No. 6087485

GENERAL INFORMATION:

APPLICANT: Axy's Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma Related Genes

NUMBER OF SEQUENCES: 339

CORRESPONDENCE ADDRESS:

ADDRESSEE: Bozicevic &amp; Reed, LLP

STREET: 285 Hamilton Ave, Suite 200

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/009,913

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Sherwood, Pamela J

REGISTRATION NUMBER: 36,677

REFERENCE/DOCKET NUMBER: SEQ-4P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-327-3231

TELEFAX: 650-327-3231

TELEX:

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 5667 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-009-913-4

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## Alignment Scores:

Pred. No.:	1,61e-52	Length:	5667
Score:	580.00	Matches:	129
Percent Similarity:	54.438	Conservative:	43
Best Local Similarity:	40.828	Mismatches:	78
Query Match:	29.228	Indels:	66
DB:	3	Gaps:	7

US-08-978-217-16 (1-371) x US-09-009-913-4 (1-5667)

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Qy 78 GlnValGluLysAsnLysTyrAspAlaSerSerLysAspPheSerArgCysAsnMetAsp 97
Db 573 CTCCTGACACCAACCAAGCTGATGCCAATTGTATCTTTCACAGAGTTGACATCAAC 632
Qy 98 GlnValAlaThrLeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGly 117
Db 633 GAGGACACCTCTTCAGCATGAGCTTTGACAGATTACCCGGGCGGACGAGCGGG 692
Qy 118 AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerArgGlu 134
Db 693 CAGCTCTCTACAGCAACTTGGCAGCATCTGAAGTGGAACGGCCAGTCAGTAGTGAC--- 749
Qy 135 LeuSerTrpLeuLeuLeuLeuGluLysAspGlyMetSerPheGlnLeuSerLeuGly 154
Db 750 -----CTGTCCAGTCCACACCAAT 770
Qy 155 AspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAspGlyArg 174
Db 771 GTCATTTGACAGCTGACAACTGAGCT-----TTCATCTGAACACCTGGAAA 821
Qy 175 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 194
Db 822 GACGAGACGATTATATGACCACTATGTT----- 854
Qy 195 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGly 214
Db 855 -----AGCACA----- 860
Qy 215 SerArgValAspLeuAspLeuThrGluSerLysValPheProArgAspAspHe----- 232
Db 861 -----GTAGATTGTTGGACAGCAAACTTTGCGGGGCTCAGATCTCCATG 908
Qy 233 -----ThrsArgTyrLysLysGluProLysHisGluLysArgLysArgGlyArg 249
Db 909 ACAACACACAGCTACCTTCTGTTGACAGCTACCTGATATGAAAAAGAGCAAGACCCC 968
Qy 250 ProArgLysLeuSerLysGluTyrTyrAspCysLeuGluGluLysLysSerLysHisAla 269
Db 969 CTTGCCAAGTCCACACCAAA-----AAGCACAAC 998
Qy 270 ProArgLysThrHisLeuTyrGluPheLeuArgAspLeuLeuLeuHisProGluLeuAsn 289
Db 999 CCGAGAGGAGCTACATTATGGGAATTCATCCGCGACATCTTGAACCCAGACCAAGAAC 1058
Qy 290 GluGluLeuMetLysTyrGluAsnArgHisGluGluValPheLysPheLeuArgSerGlu 309
Db 1059 CCAAGATTAAATAATGGGAAGACCGATCTGAGGGGCTTTCAGGTTCTTGAATTCAGAG 1118
Qy 310 AlaValAlaGlnLeuTyrGluGlnLysLysAsnSerAsnMetThrTyrGluLysLeu 329
Db 1119 GCAGTGGCTAGCTATGGGTTAAAAAGAAACACAGCAGCTATGATGAAAAAGCTC 1178
Qy 330 SerArgAlaMetArgTyrTyrTyrLysArgGluLysLeuGluLysArgValAspGlyArg 349

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Db 1179 AGCCGAGCTATGAGATTTACTACTACAAAGAAATGAGCTGTGATGACGAAGA 1238  
Qy 350 LeuValTyrLysPheGlyLysAsnSerSerGlyTyrLysGluGlu 365  
Db 1239 CTGGTATATTAATTTGGAGAAATGCCCGAGATGGAGAAATGAA 1286

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US-09-020-956-44/C  
Sequence 44, Application US/09020956  
Patent No. 6261562  
GENERAL INFORMATION:  
APPLICANT: Xu, Jianshun  
APPLICANT: Dillon, David C.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
NUMBER OF SEQUENCES: 178  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/020.956  
FILING DATE: 09-FEB-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.42762  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 852 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
US-09-020-956-44

Alignment Scores:  
Pred. No.: 9,266-50 Length: 852  
Score: 543.00 Matches: 124  
Percent Similarity: 54.28% Conservative: 41  
Best Local Similarity: 40.79% Mismatches: 73  
Query Match: 27.36% Indels: 66  
Gaps: 7

US-08-978-217-16 (1-371) x US-09-020-956-44 (1-852)

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Db 850 CAGGTGGAGGTGGCTCCATCCTCTCGACACCAACGAGCTGGATGCAATTTGATC 791  
Qy 90 AspPheSerArgCysAsnMetAspGlyAlaThrLeuLysSerCysAlaLeuGluLeu 109  
Db 790 CTTTCCAGAGTTCCGATCAACGAGGAGCACTTGGACGATGAGTTGGAGAGTTTC 731  
Qy 110 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuAspLeuThrSer 129  
Db 730 ACCGGGGCGGACGAGGAGGCGGCGCACTCTCTACAGCAACTTGCAGCATCTGAAGTG 671  
Qy 130 Asn-----SerSerAspGluLeuSerTyrLysLeuLeuGluLysAspGly 146

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Qy 147 MetSerPheGlnLysLeuGluLysAspGlnLysProPheAspGlnLysSerProPheAla 166  
Db 649 ---CTGTTCCAGTCCACACACAAATGCTATTTGTAACACTGAAACAACTGAGCTT----- 599  
Qy 167 GlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 186  
Db 598 ---TCCATCTGAACACCTGAAAGACNMGAACTATTTATATGACCAACCTATGCT--- 545  
Qy 187 GlyAlaProSerProLysSerAspValSerThrAlaArgThrAlaThrProGlnSer 206  
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Qy 207 SerHisAlaSerAspSerGlyLysAspValAspLeuAspLeuThrGluSerLysVal 226  
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Qy 242 HisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeu 261  
Db 454 GATATGAAAGAGGAGAGACCCCTGCCAGTGCACACCAA----- 410  
Qy 262 GlnGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrLysLysLeuAsp 281  
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Sequence 44, Application US/09030607  
Patent No. 6262245  
GENERAL INFORMATION:  
APPLICANT: Xu, Jianshun  
APPLICANT: Dillon, David C.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
NUMBER OF SEQUENCES: 224  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:



APPLICATION NUMBER: US/09/030,607  
 FILING DATE: 25-FEB-1998  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: MAKI, David J.  
 REGISTRATION NUMBER: 31,392  
 REFERENCE/DOCKET NUMBER: 210121.427C3  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (206) 622-4900  
 TELEFAX: (206) 682-6031  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 852 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapiens  
 US-09-030-607-44

Alignment Scores:  
 Pred. No.: 9.26e-50 Length: 852  
 Score: 543.00 Matches: 124  
 Percent Similarity: 54.28% Conservative: 41  
 Best Local Similarity: 40.79% Mismatches: 73  
 Query Match: 27.36% Indels: 66  
 DB: 3 Gaps: 7

US-08-978-217-16 (1-371) x US-09-030-607-44 (1-852)

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DB 409 -----AMGCACAACCCGAGAGGAGTCACTTATGGGAATTTCATCCGCGAC 365  
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

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11515.905 Million cell updates/sec

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Perfect score: 7752  
Sequence: 1 GGATCCTCCAGGACTGA.....CAGAGGGGTCTCGATCC 7752

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapept 1.0

Searched: 3625171 seqs, 2700493622 residues  
Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications NA:\*

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- 19: /cgn2\_6/prodata/1/pubpna/US11\_NEW\_PUB.seq:\*
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- 21: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	216	2.8	1907	14	US-10-097-340-74 Sequence 74, Appl
3	216	2.8	1907	15	US-10-291-808-27 Sequence 27, Appl
4	215.6	2.8	1915	9	US-09-964-824A-101 Sequence 101, App
5	215.6	2.8	1915	9	US-09-964-824A-563 Sequence 563, App
6	215.6	2.8	1915	9	US-09-880-107-3420 Sequence 3420, Ap
7	215.6	2.8	1915	9	US-09-967-768A-192 Sequence 192, App
8	215.6	2.8	1917	9	US-09-922-217-1105 Sequence 1105, Ap
9	215.6	2.8	1917	13	US-10-025-380-1105 Sequence 1105, Ap
10	215.6	2.8	1956	16	US-10-264-049-756 Sequence 756, App
11	215.6	2.8	1996	9	US-09-925-301-207 Sequence 207, App
12	215.6	2.8	2269	15	US-10-131-410-64 Sequence 64, Appl

C 13	185.8	2.4	1435	15	US-10-017-161-1953 Sequence 1953, Ap
C 14	185.8	2.4	1435	15	US-10-293-798-1601 Sequence 1601, Ap
C 15	179	2.3	229	18	US-10-425-115-58949 Sequence 58949, A
C 16	176.2	2.3	626	9	US-09-922-217-853 Sequence 853, App
C 17	176.2	2.3	626	9	US-09-833-263-853 Sequence 853, App
C 18	176.2	2.3	626	13	US-10-025-380-853 Sequence 853, App
C 19	174.2	2.2	620	14	US-10-060-036-2379 Sequence 2379, Ap
C 20	166	2.1	437	9	US-09-998-598-2216 Sequence 2216, Ap
C 21	163.8	2.1	275	14	US-10-060-036-3361 Sequence 3361, Ap
C 22	163.8	2.1	499	9	US-09-998-598-2280 Sequence 2290, Ap
C 23	163.8	2.1	502	9	US-09-604-287A-282 Sequence 282, App
C 24	163.8	2.1	502	9	US-09-834-759-282 Sequence 282, App
C 25	163.8	2.1	502	9	US-09-339-338-282 Sequence 282, App
C 26	163.8	2.1	502	13	US-09-551-621-282 Sequence 282, App
C 27	163.8	2.1	502	10	US-10-007-805-282 Sequence 282, App
C 28	163.8	2.1	502	14	US-10-076-622-282 Sequence 282, App
C 29	163.8	2.1	502	15	US-10-124-805-282 Sequence 282, App
C 30	148	1.9	451	9	US-09-998-598-32 Sequence 32, Appl
C 31	144	1.9	528	14	US-10-066-543-3333 Sequence 3333, Ap
C 32	140.2	1.8	355	9	US-09-867-701-4818 Sequence 4818, Ap
C 33	132.2	1.7	563	9	US-09-922-217-944 Sequence 944, App
C 34	132.2	1.7	563	9	US-09-833-263-944 Sequence 944, App
C 35	132.2	1.7	563	13	US-10-025-380-944 Sequence 944, App
C 36	126.8	1.6	61791	17	US-10-322-281-645 Sequence 645, App
C 37	125.8	1.6	33488	15	US-10-085-117-235 Sequence 235, App
C 38	125.6	1.6	237	16	US-10-305-720-927 Sequence 927, App
C 39	124.4	1.6	92076	17	US-10-322-281-465 Sequence 465, App
C 40	124.2	1.6	93329	17	US-10-322-281-817 Sequence 817, App
C 41	124	1.6	84410	17	US-10-322-281-747 Sequence 747, App
C 42	124	1.6	109586	13	US-10-087-192-73 Sequence 73, Appl
C 43	123.8	1.6	65559	9	US-10-087-192-841 Sequence 841, App
C 44	123.6	1.6	5973	13	US-09-893-238-4 Sequence 4, Appl
C 45	123.4	1.6	493631	13	US-10-087-192-205 Sequence 205, App

#### ALIGNMENTS

RESULT 1  
US-10-152-319A-670/c  
; Sequence 670, Application US/10152319A  
; Publication No. US20040072160A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Porter, Mark  
; APPLICANT: Johnson, Kory  
; APPLICANT: Higgs, Brandon  
; APPLICANT: Castle, Arthur  
; APPLICANT: Blaschoff, Michael  
; TITLE OR INVENTION: Molecular Toxicology Modeling  
; FILE REFERENCE: 44921-5089-US  
; CURRENT APPLICATION NUMBER: US/10/152,319A  
; CURRENT FILING DATE: 2002-05-22  
; PRIOR APPLICATION NUMBER: US 60/292,335  
; PRIOR FILING DATE: 2001-05-22  
; PRIOR APPLICATION NUMBER: US 60/297,523  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: US 60/298,925  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: US 60/303,810  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US 60/303,807  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US 60/303,808  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US 60/315,047  
; PRIOR FILING DATE: 2001-08-28  
; PRIOR APPLICATION NUMBER: US 60/324,928  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US 60/330,867  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: US 60/330,462  
; PRIOR FILING DATE: 2001-10-22

Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 2221  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 670  
LENGTH: 395  
TYPE: DNA  
ORGANISM: Rattus norvegicus  
FEATURE:  
OTHER INFORMATION: Genbank Accession No. AT013829  
US-10-152-319A-670

Query Match 3.0%; Score 235.4; DB 16; Length 395;  
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Matches 337; Conservative 0; Mismatches 56; Indels 18; Gaps 5;

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QY 7368 AGTTCCCTCCCTCCCAACATGATGCAATGAGACCACTGAGATGCTGCGCTCA 7427  
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QY 7428 GCCAAGAGGCTGAGGAGACTGTGAGCAGAGACTGCAAGGAGCGAGGGGACAGGTTTG 7487  
DB 111 GCCAAGAGGCTGAGGAGACTGTGAGCAGAGACTGCAAGGAGCGAGGGGACAGGATTGTG 52  
QY 7488 TCCTC-CTGATCTTCCGAGCTGCTTCCAGCTCTTGTGCTAGTACTGAGC 7537  
DB 51 TCCTCAGAGCTTCTTGTGACTGCTTCCAGCTCTTGTGCTAGTACTGAGC 1

RESULT 2  
US-10-097-340-74  
Sequence 74, Application US/10097340  
Publication No. US20030087250A1  
GENERAL INFORMATION:  
APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNANAVARAPU  
APPLICANT: Sebastian HOERSCH  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATIS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
FILE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149

PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 74  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 2.8%; Score 216; DB 14; Length 1907;  
Best Local Similarity 66.7%; Pred. No. 4.3e-54;  
Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

QY 6999 AGGATTTACTACAAACGGAGATCTTGAAAGCGGTGATGCGCGAGCTGCTTCAAG 7058  
DB 1095 AGGATTTACTACAAACGGAGATCTTGAAAGCGGTGATGCGCGAGCTGCTTCAAG 1154  
QY 7059 TTGGCAAGACCTCTGATGCTGGAAGAAAGAGTTGGAAGAGATGCGAATTAAAG 7118  
DB 1155 TTGGCAAGAACTCAAGCGGCTGGAAGAAAGAGTTTCAAGATGGAAGAGG 1214  
QY 7119 TCGGGGCTGAGACCCAGACCTGATCTGAGCATGAACTCCAGAACTGAACTTCTGAA 7178  
DB 1215 TTGGAATTTACCCGGGACCAAACTCAAGCACTGAGGCTGCAAACTTCTGAGGA 1274  
QY 7179 GGAACAGGAGGCTGACGCGCCCTTAAATGATGATGTTCCTGTGTGCTGTAGAG 7238  
DB 1275 GGAACAGGAGGCTGACGCGCGCTTAAATGATGATGTTCCTGTGTGCTGTAGAG 1333  
QY 7239 GAAGAACCTGTTGGGAGTCCCTCTGCG--AGTCTCTCAAGTCAAGCTTTGGCTC-- 7293  
DB 1334 AAGCTATGTTTGTGTATTTGTCAAGCATGCTCTTGAATCGAGACTATGCTCGC 1393  
QY 7294 --TCTCTGAGCTCTTGAATTTCAAGCCCGGTTTGAACCACTTGT----- 7341  
DB 1394 CTCCCAACCTCTCTTGAATTTCAAGCCCGGTTTGAAGCTGACTTTAACTGCA 1453  
QY 7342 --TCATTAATCTTCAAGCTGATTCAGTTCCCTCCGTCCAACATGAGCTGCAAT 7399  
DB 1454 AGTGTATCTCTTTTATCTGTGCTCTTCAACCCAGTCTCAAGACTTAAATGCAAG 1513  
QY 7400 GAGAC--CCACCTGAGATGCTGAGCTCAGCAAGAGGCTGGGAGACTGTGCAAG 7456  
DB 1514 AACACCTTTCTCTGAGACACTTGAATGAGCCCAAGAGGCTTGGAGGCTC--AG 1569  
QY 7457 AGACTCAGAGGAGCGAGGAGAGAGGTTGTCTCTGATCTTC--CTGAGCTGCTTC 7513  
DB 1570 GAGAGACCGTGAATGAGAGAGAGAGAGGAGGCTCAGACATTTCTTGAAGCTGCT 1629  
QY 7514 CACCTTTTGTGCTGATCTCAGGCTCAGAGAGGAGGCTGAGTCA--TCCCTAATTAG 7572  
DB 1630 CACCTCTGCTCAGAGCTTGGGCTTCAAGGAGGAGGCTCAAGGACTTCCCTAATTAG 1689  
QY 7573 TGTCTATA--AATTCAGAGTATATAGAGCTATTTTCTAAAGCTATTCCTCC 7630  
DB 1690 TGTCTATAAATATGCTCAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1749  
QY 7631 CTGCTCTTCTCAGTGAAGTGTG 7654  
DB 1750 CACTCTTCCACAGAGTGTG 1773

RESULT 3

US-10-291-808-27  
 ; Sequence 27, Application US/10291808  
 ; Publication No. US20030224382A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: McCelland, Michael  
 ; APPLICANT: Welsh, John  
 ; APPLICANT: Trenkle, Thomas  
 ; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
 ; FILE REFERENCE: P-PH 3457  
 ; CURRENT APPLICATION NUMBER: US/10/291, 808  
 ; PRIOR FILING DATE: 2002-11-07  
 ; PRIOR APPLICATION NUMBER: US/09/300,958  
 ; PRIOR FILING DATE: 1999-04-27  
 ; PRIOR APPLICATION NUMBER: 60/083,331  
 ; PRIOR FILING DATE: 1998-04-27  
 ; PRIOR APPLICATION NUMBER: 60/098,070  
 ; PRIOR FILING DATE: 1998-08-27  
 ; PRIOR APPLICATION NUMBER: 60/118,624  
 ; PRIOR FILING DATE: 1999-02-04  
 ; NUMBER OF SEQ ID NOS: 85  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 27  
 ; TYPE: DNA  
 ; LENGTH: 1907  
 ; ORGANISM: Homo sapiens  
 ; US-10-291-808-27

Query Match 2.8%; Score 216; DB 15; Length 1907;  
 Best Local Similarity 66.7%; Pred. No. 4,3e-54;  
 Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

QY 6999 AGGTATTACTACAAAGGAGATCTTGGAACGGGTGATGCGGAGCGCTCGTCTACAG 7058  
 DB 1095 AGGTACTACTACAAAGGAGATCTTGGAACGGGTGATGCGGAGCGCTCGTCTACAG 1154  
 QY 7059 TTGGGCAAGAACTCTAGTGTGCTGGAAGGAAGAGAGTGGAGAGTGGGAATTAGGA 7118  
 DB 1155 TTGGGCAAGAACTCTAGTGTGCTGGAAGGAAGAGAGTGGAGAGTGGGAATTAGGA 1214  
 QY 7119 TCGGGGCTGAGCCAGGAGCTGATCTGAGCATGAATCTCAGAACTGAAGCTTCTGGA 7178  
 DB 1215 TTGGAACTATACCGGGAGCAAACTGACGAGCATGAGCGCTGCAAACTTCTGGA 1274  
 QY 7179 GGAAGGAGGCTGAGCGGCTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 7238  
 DB 1275 GGAAGGAGGCTGAGCGGCTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1333  
 QY 7239 GAAGAACTGTGGGGGTGCGCTCTGC---AGTCTCTCAAGTGCAGGCTTGGGCTC-- 7293  
 DB 1334 AAGCTGATGTTTGGGTATTTGTCAGCATGCTCTTGAAGTGGAGCATATGAGCTCGC 1393  
 QY 7294 --TCTCTGCGCTCTTGAATTAAGAGCCCGGTTTGAACCACTTGT----- 7341  
 DB 1394 CTCGCCACCTCTCTTGAATTAAGAGCCCGGTTTGAAGTGAAGTGAAGTGAAGTGA 1453  
 QY 7342 --TCGATTAATCTTCAAGCTGTGATTCAGATTCCTCCCGTCCCAACATGAGCTCAAT 7399  
 DB 1454 AGGTATCTCTTATCTGTGCTCTCTCAAACTGAGCTCAAGACTTAATATGAGAC 1513  
 QY 7400 GAGAC--CGACGTGAGATGCGCTGAGCCAGCAAGAGAGGAGGAGGAGGAGGAGGAG 7456  
 DB 1514 AACACTTCTCTCTGAGACACTTGAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGG 1569  
 QY 7457 AGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7513  
 DB 1570 GGAAGACCGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1629  
 QY 7514 CACTCTTTTGTCTAGTACTAGGCTTCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7572  
 DB 1630 CACTCTCTCTCTAGTCTTGGGCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1689  
 QY 7573 TGTCTATA--AATATTCAGGATGATATAGAGAGTATTTTCTTAAGCATTTCCCTCC 7630

DB 1690 TGTCTATAAATATATGACATGATGATGATGATGATGATGATGATGATGATGATGAT 1749  
 QY 7631 CTGCTCTTCTCCAGTGAAGTCTGG 7654  
 DB 1750 CACTCTCTCTCCAGAGAGTCTGG 1773

## RESULT 4

US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; PRIOR FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO: 101  
 ; TYPE: DNA  
 ; LENGTH: 1915  
 ; ORGANISM: Homo sapiens  
 ; US-09-964-824A-101

Query Match 2.8%; Score 215.6; DB 9; Length 1915;  
 Best Local Similarity 65.6%; Pred. No. 5,6e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAAGGAGATCTTGGAACGGGTGATGCGGAGCGCTCGTCTACAG 7058  
 DB 1119 AGGTACTACTACAAAGGAGATCTTGGAACGGGTGATGCGGAGCGCTCGTCTACAG 1178  
 QY 7059 TTGGGCAAGAACTCTAGTGTGCTGGAAGGAAGAGAGTGGAGAGTGGGAATTAGGA 7118  
 DB 1179 TTGGGCAAGAACTCTAGTGTGCTGGAAGGAAGAGAGTGGAGAGTGGGAATTAGGA 1238  
 QY 7119 TCGGGGCTGAGCCAGGAGCTGATCTGAGCATGAATCTCAGAACTGAAGCTTCTGGA 7178  
 DB 1239 TTGGAACTATACCGGGAGCAAACTGACGAGCATGAGCGCTGCAAACTTCTGGA 1298  
 QY 7179 GGAAGGAGGCTGAGCGGCTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7238  
 DB 1299 GGAAGGAGGCTGAGCGGCTGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1357  
 QY 7239 GAAGAACTGTGGGGGTGCGCTCTGC---AGTCTCTCAAGTGCAGGCTTGGGCTC-- 7293  
 DB 1358 AAGCTGATGTTTGGGTATTTGTCAGCATGCTCTTGAAGTGGAGCATATGAGCTCGC 1417  
 QY 7294 --TCTCTGCGCTCTTGAATTAAGAGCCCGGTTTGAACCACTTGTGA----- 7345  
 DB 1418 CTCGCCACCTCTCTTGAATTAAGAGCCCGGTTTGAAGTGAAGTGAAGTGAAGTGA 1477  
 QY 7346 -----TAAGCTTCAAGCTGTGATTCAGTGTCCCTCCCGTCCCAACATGAGCTGAA 7397  
 DB 1478 AGGTATCTCTTATATCTGTGCTCTCTCAAACTGAGCTCAAGACTTAATATGAGACA 1537  
 QY 7398 ATGAGACCACTGAGATGCTGAGCTGAGCCAGCAAGAGAGGAGGAGGAGGAGGAGGAG 7457  
 DB 1538 AACACTTCTCTCTGAGACACTTGAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGG 1595  
 QY 7458 GACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7513  
 DB 1596 GAGCACTGATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1655





Db	1241	TTGGAACTATACCCGGGAGCCAAATCTCAGAGACACTCGAGGCTCGCAACCTTCTCGGA	1300
QY	7179	GGACAGCGAGGCTGACGCGCCCTTAACATGATGTGTTCCCTGTGTGCTGTAGAG	7238
Db	1301	GGACAGGAGGCTCAGATGG-CCCTCCACTGGGAAATCTCCAGACTGTGTGTGAGAG	1359
QY	7239	GAAGAAGCTGTGGGCGTGCCTCTGC--AGTCTCTCAAGTGCAGGCTTTGGGCTC-	7293
Db	1360	AAGCTGATGTTTGGTGTATGTGCAGCATGTCCTCGGACTCGGAGACTATGGGCTGCG	1419
QY	7294	--TCTCTCGGCTCTTGGAAATTACAGAGCCCGGTTTGAACCAATTGTCGA-----	7345
Db	1420	CTCCCAACCTCTCTTGGAAATTACAGCCCTGGGGGTTTGAAGTCGACTTATAGCTGCA	1479
QY	7346	-----TAAGTCTTCAGCGTGATTTCCAGTTCCCTCCGCTCCAAATGAGACTGCA	7397
Db	1480	AGGTGATTCCTTTATATGTGGTGCTCTCTCAACCCAGTCTCAGACATTAATGAGCA	1539
QY	7398	ATGAGACCCAGCTGCAGATGCTGGGCTCAGACCAAGAGGCTGGGAGACTGTGGCAGA	7457
Db	1540	ACACCTTCTCTCTGCAGACACTGGACTGAAGCCAGAGGCGCTGGG--GAAGCCCTAGG	1597
QY	7458	GACTGCAGGAGCGAGGGGAGACGGGTGTGTCTGG-----TACTTCTGAGCTGCTTC	7513
Db	1598	GAGCAGCGGTATGGAGAGCAGAGCAGAGGGGCTCAGACCTTCTTTGAGCTGGGGTT	1657
QY	7514	CACCTCTTGTCTCAGTACTCAGGCTCCACAGACGGGGGTGGAGTCA-TCCTTAATTATG	7572
Db	1658	CACCTCCCTGTCAAGTGTCTGGGCTCCACGGGCAAGGGGTGCAGAGACTCCCTAATTATG	1717
QY	7573	TGC--TAAATATTTCCAGGTGTAATATGAGAGCTATTTTTTCTAAAGCATTTTCCCTCC	7630
Db	1718	TGCAATAAATAATGTCAAGATGACATGAGATTAATTTTTCTTAAACATTTCCCTCC	1777
QY	7631	CTGCTCTTCTCAGTAGTGTCTGG 7654	
Db	1778	CACCTCTCTCCACAGAGTGTCTGG 1801	

```

RESULT 9
US-10-025-380-1105
Sequence 1105, Application US/10025380
Publication No. US20020182191A1
GENERAL INFORMATION:
APPLICANT: Xu, Jianshun
APPLICANT: Lodes, Michael J.
APPLICANT: Secretist, Heather
APPLICANT: Benson, Darin R.
APPLICANT: Mescher, Madeleine Joy
APPLICANT: Stolk, John A.
APPLICANT: Wang, Tongtong
APPLICANT: Jjiang, Yugu
APPLICANT: Smith, Carole L.
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aijun
APPLICANT: Clapper, Jonathan D.
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Fanger, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darick
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.471C14
CURRENT APPLICATION NUMBER: US/10/025.380
CURRENT FILING DATE: 2001-12-19
NUMBER OF SEQ ID NOS: 129
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1105
LENGTH: 1917
TYPE: DNA
ORGANISM: Homo sapiens
US-10-025-380-1105

```

Query Match 2.8%; Score 215.6; DB 13; Length 1917;  
Best Local Similarity 65.6%; Pred. No. 5.6e-54;  
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

OY	6999	GGATTTACTCAAAACGGAGAACTCTGGAA	CGGGTGGATTGGCCACAGGCTGTCTAACAG	7058
Db	1121	AGGATCTACTCAAAACGGAGAACTCTGGAA	CGGGTGGATTGGCCACAGGCTGTCTAACAG	1180
OY	7059	TTTGGCAAGAACTCTAGTGGCTGGAAAGGA	AGAGAGTTGGAGAGTCTGAAATTAAAGA	7118
Db	1181	TTTGGCAAAAACTCAAGCGGCTGGAAAGAGGA	AGAGAGTTCTTCAGAGTCTGAACTGAAGG	1240
OY	7119	TCGGGGCTGGACCCAGGACCTGACTCAAGGCA	TGAACTCAACAGTGAAGCCTTCTCTGGAA	7178
Db	1241	TTGGAACCTATACCCGGAGCCAAACTCAAGGAC	CACTCGAGGCTCTGCAAACTTCTCTGGGA	1300
OY	7179	GGACAGGACGGCCTGACGGCCCCCTTAA	CATGATATGTGTCTCTGTGTCTGTAGAAG	7238
Db	1301	GGACAGGACGGCCTGAGATAG-CCCTTCAC	CTGGGAATGCTCCAGCTGTGCTGTGGAG	1358
OY	7239	GAAAGACCTGTGGGGCCGTGCCCTCTGC---	AGTCTCCAGTGCAGGCTTTGGGCTC--	7299
Db	1360	AAGCTGATGTTTGTGTGTATGTATGTAGCC	ATGCTCTGGAGCTCGAGACTATAGGCTTGC	1419
OY	7294	--TCTCTCGCCCTCTTGGAAATTACAGCCCC	CGGGATTGAAACCACTTGTTGCA-----	7345
Db	1420	CTCCCAACCTCTCTTGGAAATTACAGCCCT	GTGGGTTTGAAGCTGACTTATATAGCTCA	1479
OY	7346	-----TAACTCTTCACGCTGTGATTC	CACTTCCCTCCGCTCCCAATATGACTGAA	7399
Db	1480	AGTGTATCTCTTTTATCTGGTGTGCTCTCT	CAAACTCAAGTCTCAAGACTTAAATGAGCA	1539
OY	7398	ATGAGACCCACCTGCAGATGCTTGACCT	CTCAGCCAGAGAGCTGGGAGACTGTGGACGA	7457
Db	1540	ACACCTTCTCTCTCAGACACTTGGACTGAG	CCAGAGAGGCTCTGG--GAGGCCCTAGGG	1599
OY	7458	GACTGCAGAGGACGAGGGGACAGGGTGTGT	CTCTCG---TACTCTCGACTGCTCTTC	7513
Db	1598	GAGCAGCCGTATGAGAGGAGCAGAGGGGCT	CCAGACCTTCTTCTTGACTCGACCTT	1657
OY	7514	CACCTCTTGTGTGATCTACTAGGCTCCACA	GAGGGGCTGGATCA-TCCGTAATTTAAG	7572
Db	1658	CACCTCTCTGCTCAGTGTGTGGCTTCCAGG	GAGGGGTCAAGAGCACTCCCTAATTTATG	1717
OY	7573	TGC--TATTAATATTCAGAGTATATAGAGG	CTATTTTTCTTAAAGCATTTCCCTTC	7630
Db	1718	TGCTATTAATATATGTACAGATGTACATAG	AGATCTATTTTTCTTAAAAATTTCCCTCCC	1777
OY	7631	CTGCTCTTTCACAGTGTGCTGG	7654	
Db	1778	CACCTCTCTCCACAGAGTGTGG	1801	

```

RESULT 10
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US2004000557A1
; GENERAL INFORMATION:
; APPLICANT: Bire et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264, 049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA

```



ORGANISM: Homo sapiens  
US-10-264-049-756

Query Match 2.8%; Score 215.6; DB 16; Length 1956;

Best Local Similarity 65.6%; Pred. No. 5,7e-54;

Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

```

6999 AGGTATTACTACAAACGGAGATCTGGAACGGGTGATGCGCGAGCTGCTCAAG 7058
    |||
1160 AGGTACTACTACAAACGGAGATCTGGAACGGGTGATGCGCGAGCTGCTCAAG 1219
    |||
7059 TTGGCAAGAACTCTAGTGGCTGGAAGAAAGAGTTGAGAGAGTGGAAATTAAGA 7118
    |||
1220 TTGGCAAAACTCAAGCGGCTGGAAGAGAGAGTTCTCAAGAGTGGAAATGAAGG 1279
    |||
7119 TCGGGCTGAGACCGAGACTGATGATGATGATGATGATGATGATGATGATGATG 7178
    |||
1280 TTGGAACTATACCGGAGACCAAGCTGAGGCTGCAAACTTTCTGAGGA 1339
    |||
7179 GGAAGAGAGAGCTGAGCGGCTTAACTGATGATGATGATGATGATGATGATGATG 7238
    |||
1340 GGAAGAGAGAGCTGAGCGGCTTAACTGATGATGATGATGATGATGATGATGATG 1398
    |||
7239 GAAGAACTGTTGGGCGTCCCTGTC--AGTCTCTCAAGTGCAGCCTTTGCGCTC-- 7293
    |||
1399 AGCTGATGTTTGGTATGATGATGATGATGATGATGATGATGATGATGATGATG 1458
    |||
7294 --TCTCTGCGCTCTTGAATTAAGAGCCCGGTTTGAACCACTTTGCGA----- 7345
    |||
1459 CTCGCCACCTCTCTTGAATTAAGAGCCCGGTTTGAACCACTTTATAGCTGCA 1518
    |||
7346 -----TAACTCTTCAAGCTGATTCAGTTCCCTCCGCTCCCAAGTGAAGTGA 7297
    |||
1519 AGCTGATCTCTTATCTGATCTGATCTCTTCAACCACTGATGATGATGATGATG 1578
    |||
7398 ATGAGACCACTGAGATGCTGAGCTGAGCAAGAGAGCTGGAGAGCTGGAGAGA 7457
    |||
1579 ACACCTTCTCTGAGAGACCTGAGCTGAGCAAGAGAGCTGGAGAGCTGGAGAGA 1636
    |||
7458 GACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 7513
    |||
1637 GAGCAGCGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1696
    |||
7514 CACTCTTTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 7572
    |||
1697 CACTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1756
    |||
7573 TGC--TATAAATATTCAGAGTATATAGAGAGCTATTTTCTAAAGCATTTCCCTCC 7630
    |||
1757 TGTATATATATATATATATATATATATATATATATATATATATATATATAT 1816
    |||
7631 CTGCTCTTCTCACTAGTGTGG 7654
    |||
1817 CACTCTCTCCACAGAGTGTGG 1840
    |||

```

RESULT 11

US-09-925-301-207

Sequence 207, Application US/09925301

Patent No. US2002005208A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA106

CURRENT APPLICATION NUMBER: US/09/925, 301

PRIOR FILING DATE: 2001-08-10

PRIOR APPLICATION NUMBER: PCT/US00/05882

PRIOR FILING DATE: 2000-03-08

PRIOR APPLICATION NUMBER: 60/124,270

PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 1694

SOFTWARE: Patent Ver. 2.0

SEQ ID NO 207

LENGTH: 1996  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-925-301-207

Query Match 2.8%; Score 215.6; DB 9; Length 1996;

Best Local Similarity 65.6%; Pred. No. 5,8e-54;

Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

```

6999 AGGTATTACTACAAACGGAGATCTGGAACGGGTGATGCGCGAGCTGCTCAAG 7058
    |||
1140 AGGTACTACTACAAACGGAGATCTGGAACGGGTGATGCGCGAGCTGCTCAAG 1199
    |||
7059 TTGGCAAGAACTCTAGTGGCTGGAAGAAAGAGTTGAGAGAGTGGAAATTAAGA 7118
    |||
1200 TTGGCAAAACTCAAGCGGCTGGAAGAGAGAGTTCTCAAGAGTGGAAATGAAGG 1259
    |||
7119 TCGGGCTGAGACCGAGACTGATGATGATGATGATGATGATGATGATGATGATG 7178
    |||
1260 TTGGAACTATACCGGAGACCAAGCTGAGGCTGCAAACTTTCTGAGGA 1319
    |||
7179 GGAAGAGAGAGCTGAGCGGCTTAACTGATGATGATGATGATGATGATGATGATG 7238
    |||
1320 GGAAGAGAGAGCTGAGCGGCTTAACTGATGATGATGATGATGATGATGATGATG 1378
    |||
7239 GAAGAACTGTTGGGCGTCCCTGTC--AGTCTCTCAAGTGCAGCCTTTGCGCTC-- 7293
    |||
1379 AGCTGATGTTTGGTATGATGATGATGATGATGATGATGATGATGATGATGATG 1438
    |||
7294 --TCTCTGCGCTCTTGAATTAAGAGCCCGGTTTGAACCACTTTGCGA----- 7345
    |||
1439 CTCGCCACCTCTCTTGAATTAAGAGCCCGGTTTGAACCACTTTATAGCTGCA 1498
    |||
7346 -----TAACTCTTCAAGCTGATTCAGTTCCCTCCGCTCCCAAGTGAAGTGA 7397
    |||
1499 AGCTGATCTCTTATCTGATCTGATCTCTTCAACCACTGATGATGATGATGATG 1558
    |||
7398 ATGAGACCACTGAGATGCTGAGCTGAGCAAGAGAGCTGGAGAGCTGGAGAGA 7457
    |||
1559 ACACCTTCTCTGAGAGACCTGAGCTGAGCAAGAGAGCTGGAGAGCTGGAGAGA 1616
    |||
7458 GACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 7513
    |||
1617 GAGCAGCGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1676
    |||
7514 CACTCTTTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 7572
    |||
1677 CACTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1736
    |||
7573 TGC--TATAAATATTCAGAGTATATAGAGAGCTATTTTCTAAAGCATTTCCCTCC 7630
    |||
1737 TGTATATATATATATATATATATATATATATATATATATATATATATATAT 1796
    |||
7631 CTGCTCTTCTCACTAGTGTGG 7654
    |||
1797 CACTCTCTCCACAGAGTGTGG 1820
    |||

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RESULT 12

US-10-131-410-64

Sequence 64, Application US/10131410

Publication No. US20030235915A1

GENERAL INFORMATION:

APPLICANT: SPECHT, THOMAS

APPLICANT: HINZMANN, BERND

APPLICANT: SCHMITT, ARMIN

APPLICANT: PILARSKY, CHRISTIAN

APPLICANT: DAHL, EDGAR

APPLICANT: ROSENTHAL, ANDRE

TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST

FILE REFERENCE: SCH-1763

CURRENT APPLICATION NUMBER: US/10/131,410

SEQ ID NO 207

; CURRENT FILING DATE: 2002-04-25  
 ; PRIOR APPLICATION NUMBER: 09/646,673  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: PET/DE99/00908  
 ; PRIOR FILING DATE: 1999-03-19  
 ; NUMBER OF SEQ ID NOS: 202  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 64  
 ; LENGTH: 2269  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-131-410-64

Query Match 2.4%; Score 215.6; DB 15; Length 2269;  
 Best Local Similarity 65.4%; Pred. No. 6.2e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGAGATCTCTGAAACGGGTGATGCGGACGGCTCTCTACAG 7058  
 DB 850 AGGTACTACTACAAACGGAGATCTCTGAAACGGGTGATGCGGACGGCTCTCTACAG 909  
 QY 7059 TTGGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTGAGAGTGGAAATTAAAGA 7118  
 DB 910 TTGGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTGAGAGTGGAAATTAAAGA 969  
 QY 7119 TCGGGGCTGAGCCAGGACCTGACTCAGGATGAACTCCAGAACTGAAGCTTCTGGA 7178  
 DB 970 TTGGAATATATACCCGGGACCAACCTGACGACCTGAGGCTGCAAACTTCTGGA 1029  
 QY 7179 GGAACAGGAGGCTGACAGGCGCCCTTAACATGATGTTCTCTGTCTCTGTAAGAG 7238  
 DB 1030 GGAACAGGAGGCTGACAGGCGCCCTTAACATGATGTTCTCTGTCTCTGTAAGAG 1088  
 QY 7239 GAAGAACTGTGGGCGTGCCTCTGC---AGTCTCCTCAAGTGCAGCCTTTGAGCCTC-- 7293  
 DB 1089 AAGCTATGTTTGGTGTATTTGATCAAGCATGCTCTGAGGACTGAGAGACTATGAGCTCGC 1148  
 QY 7294 --TCTCTCGCCCTCTTGAATTAACAAGCCCGGTTTGAACCACTTGTTCGA----- 7345  
 DB 1149 CTCGCCACCTCTCTTGAATTAACAAGCCCGGTTTGAACCACTTGTTCGA----- 7345  
 QY 7346 -----TACTCTTCAAGTGTGATTCAGTTTCTCCCTCCCAACATGAGCTGCA 7397  
 DB 1209 AGTGTATCTCTTCTTATCTGTGCTCTCTCAACCCAGTCTCAAGCACTTAATGACAGCA 1268  
 QY 7398 ATGAGACCCAGCTGAGATGCTGACCTGACCCCAAGAGGCTGAGGAGACTGTGGCAGGA 7457  
 DB 1269 AACCTTCTCTCTGACAGCACTGAGCTGAGCCCAAGAGGCTGAGG--GAGGCCCTAGAG 1326  
 QY 7458 GACTGACGAGGACGAGGAGGACAGGCTGTGCTCTCGG---TACTTCTGAGTGCCTTC 7513  
 DB 1327 GAGCACCGTATGAGAGGACAGAGGAGGCTCCAGCACCTTCTTCTGAGCTGAGGCTT 1386  
 QY 7514 CACTCTTCTGCTCACTGATGAGGCTCCAGAGAGGAGGCTGAGTCA--TCCCTAATTATG 7572  
 DB 1387 CACTCTTCTGCTCACTGATGAGGCTCCAGAGAGGAGGCTGAGTCA--TCCCTAATTATG 1446  
 QY 7573 TGC--TATAAATATTCAGAGGTATATATAGAGATATTTTCTAAAGATTTCCCTCC 7630  
 DB 1447 TGTATATATATATGTCAGATGATCATAGAGATCTATTTTCTAAAGATTTCCCTCC 1506  
 QY 7631 CTGCTCTTCTCACTGAGTGTG 7654  
 DB 1507 CACTCTCTCCCAAGAGTGTCTG 1530

RESULT 13  
 ; US-10-017-161-1953/c  
 ; Sequence 1953, Application US/10017161  
 ; Publication No. US20030143668A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SUMA, MAKIKO  
 ; APPLICANT: ASAI, KIYOSHI

; APPLICANT: AKIYAMA, YUTAKA  
 ; APPLICANT: ABURATANI, HIROYUKI  
 ; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS  
 ; FILE REFERENCE: 08435/0152  
 ; CURRENT APPLICATION NUMBER: US/10/017,161  
 ; CURRENT FILING DATE: 2002-12-18  
 ; PRIOR APPLICATION NUMBER: JP 2001/246789  
 ; PRIOR FILING DATE: 2001-06-18  
 ; NUMBER OF SEQ ID NOS: 2430  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1953  
 ; LENGTH: 1435  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: source  
 ; LOCATION: (1)..(1435)  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (201)..(1235)  
 ; FEATURE:  
 ; NAME/KEY: modified\_base  
 ; LOCATION: (1040)..(1139)  
 ; OTHER INFORMATION: a, t, c, g, unknown or other  
 ; FEATURE:  
 ; NAME/KEY: modified\_base  
 ; LOCATION: (1145)  
 ; OTHER INFORMATION: a, t, c, g, unknown or other  
 ; US-10-017-161-1953

Query Match 2.4%; Score 185.8; DB 15; Length 1435;  
 Best Local Similarity 79.4%; Pred. No. 6.1e-45;  
 Matches 220; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 6181 TTGGGATAGAGAGGCGCAGGTCCTAGAGAGAGGCGCACCCAGACTGATTAATGAG 6240  
 DB 442 TGGGGCGGCGAGGCTGCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 383  
 QY 6241 AATCTTCTCTGTAAGCCCGCAGAGGTAATCACTGTGGAGTTATCCAGACATCTTA 6300  
 DB 382 GAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 323  
 QY 6301 ATCCACCCGAGCTCAAGAGGCTCATGAAGTGGAGAACCCGACAGAGGCTGCTTTC 6360  
 DB 322 ATCCACCCGAGCTCAAGAGGCTCATGAAGTGGAGAACCCGACAGAGGCTGCTTTC 263  
 QY 6361 AAGTTCTTGTGCTGAGGCGGCTGCGCCCACTGTGGGCGCAGAGAGAGAGAGAGAGAG 6420  
 DB 262 AAGTTCTTGTGCTGAGGCGGCTGCGCCCACTGTGGGCGCAGAGAGAGAGAGAGAGAG 203  
 QY 6421 ATGACCTATGAGAGCTGAGCGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 6457  
 DB 202 ATGACCTATGAGAGCTGAGCGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAG 166

RESULT 14  
 ; US-10-292-798-1601/c  
 ; Sequence 1601, Application US/10292798  
 ; Publication No. US20030235833A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SUMA, MAKIKO  
 ; APPLICANT: ASAI, KIYOSHI  
 ; APPLICANT: AKIYAMA, YUTAKA  
 ; APPLICANT: ABURATANI, HIROYUKI  
 ; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS  
 ; FILE REFERENCE: 08435/166  
 ; CURRENT APPLICATION NUMBER: US/10/292,798  
 ; CURRENT FILING DATE: 2002-11-13  
 ; PRIOR APPLICATION NUMBER: 10/017,161  
 ; PRIOR FILING DATE: 2001-12-18  
 ; PRIOR APPLICATION NUMBER: JP 2001-246789  
 ; PRIOR FILING DATE: 2001-06-18  
 ; NUMBER OF SEQ ID NOS: 2070

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1601
; LENGTH: 1435
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; LOCATION: source
; FEATURE:
; LOCATION: (1)..(1435)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(1235)
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1040)..(1139)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1145)..(1145)
; OTHER INFORMATION: a, t, c, g, unknown or other
US-10-292-798-1601

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Query Match          2.4%; Score 185.8; DB 15; Length 1435;
Best Local Similarity 79.4%; Pred. No. 6.1e-45;
Matches 220; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

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QY 6181 TTGGGATAGAGAGGCGCAGCTCCCTTAGAGAGAGGGGCAACCCAGACTGATACTGAGG 6240
    |||||
DB 442 TGGGGGGGGGGGGCTGGCTGCCCTTGGGTGAGAGGGGACACTTGGATGGCAACTGATG 383
    |||||
QY 6241 AATCTTCCCTTAGAGAGGAGGAGTACCTGCTGGAGGTTTATCCGAGACATCTTA 6300
    |||||
DB 382 GAGGCTGGCTTTCAGAGGCGCCAGAGGCAACCACTTGGGATTCATCCGGGACATCTTC 323
    |||||
QY 6301 ATCCACCCGAGCTCAACGAGGCTCTATGAGTGGGAGAACCGGCAAGAGGCTGTTTC 6360
    |||||
DB 322 ATCCACCCGAGCTCAACGAGGCTCTATGAGTGGGAGAACCGGCAAGAGGCTGTTTC 263
    |||||
QY 6361 AAGTTTCTTGGCTCAAGAGGCGGCTGGCCCACTCTGGGGGCCAGAGAGAGAACAGCAAC 6420
    |||||
DB 262 AAGTTCTTGGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAGAGAACAGCAAC 203
    |||||
QY 6421 ATGACCTATGAGAGGCTGAGCCGAGCCATGAGGTGAG 6457
    |||||
DB 202 ATGACCTATGAGAGGCTGAGCCGAGCCATGAGGTGAG 166
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## RESULT 15

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US-10-425-115-58949/C
; Sequence 58949, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21 (53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 58949
; LENGTH: 229
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(229)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_153757C.1
US-10-425-115-58949

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Query Match          2.3%; Score 179; DB 18; Length 229;
Best Local Similarity 93.7%; Pred. No. 2.5e-43;
Matches 208; Conservative 0; Mismatches 11; Indels 3; Gaps 2;

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QY 7532 TCAGGCTCCACAGACGGGGGTGGATCATCCCTTAATTATGTGCTATTAATATTTCCA-CG 7590
    |||||
DB 229 TCGGGCTCCNCAAGCCGGGGGTGGATCATCCCTTAATTATGTGCTATTAATATTTCCAACGG 170
    |||||
QY 7591 TGTATATAGAGACTATTTTCTTAAAGATTTCCCTCCCTGCTCTCTCCACTGAGTG 7650
    |||||
DB 169 TGTATATAGAGACTATTTTCTTAAAGATTTCCCTCCCTGCTCTCTCTCCACTGAGTG 110
    |||||
QY 7651 CTGGTGGCAGACTGATTTTCTTTTAAAGGCCCCCTTAAGTGAACAGAGAGAGAGAGTG 7710
    |||||
DB 109 CTGGTGGCAGAGCT--ATTTTCTTTTAAAGGCCCCCTTAAGTGAACAGAGAGAGAGTG 52
    |||||
QY 7711 ATTCCAGAACCCCTCTTCCCAAGAGGGGTCTCTGATCC 7752
    |||||
DB 51 ATTCCAGAGGCCCTCTTCCCAAGAGGGGTCTCTGATCC 10
    |||||

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Search completed: November 15, 2004, 23:09:03
Job time : 3642.71 secs

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100

QY 7294 --TCTCTGCGCCCTCTTGAATTACAAGCCCGGGTTTGAACCACTTGT----- 7241  
DB 1394 CTCGCCACCTCTCTTGGATTACAGCCCTGGGGTTTGAAGTGACTTATAGCTGCA 1453  
QY 7342 --TCGATTAATCTTTCAGCTGTGATTCAGATTCCCTCCCTCCACATGAGCTCAAT 7399  
DB 1454 AGTGATCTCTCTTTATCTGTGCTCTCTCAAACTCCAGTCTCAGACACTTAAATGACAG 1513  
QY 7400 GAGAC---CCACTGCGAGATGCTGCTCAGGCCAAGAGAGGCTGGGAGACTGTGGAGG 7456  
DB 1514 AACACCTTCTTCTGCGAGACCTTGAAGTGAAGGCTGGAGGCTGGAGGCTCT---AG 1569  
QY 7457 AGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7513  
DB 1570 GAGAGCACCGTGATGAGAGAGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1629  
QY 7514 CACCTCTTCTCAGTACTGAGGCTCAGACAGAGGAGGAGGAGGAGGAGGAGGAGGAG 7572  
DB 1630 CACCTCTCTCTCAGTACTGAGGCTCAGACAGGAGGAGGAGGAGGAGGAGGAGGAGG 1689  
QY 7573 TCGTATTA--AATATTCAGAGTATATATAGAGAGTATTTTCTAAAGCATTTCCCTCC 7630  
DB 1690 TCGTATTAAT 1749  
QY 7631 CTGCTCTTCTCAGTACTGAGGCTGAG 7654  
DB 1750 CACTCTCTCTCCACAGAGTGTCTGG 1773

## RESULT 2

US-09-570-593-4  
/ Sequence 4, Application US/09570593  
/ Patent No. 6566063  
/ GENERAL INFORMATION:  
/ APPLICANT: Kaufmann, Joerg  
/ APPLICANT: Xian, Hong  
/ APPLICANT: Hartowe, Greg  
/ TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
/ TITLE OF INVENTION: CANCER  
/ FILE REFERENCE: 2300-1556  
/ CURRENT APPLICATION NUMBER: US/09/570,593  
/ CURRENT FILING DATE: 2000-05-12  
/ PRIOR APPLICATION NUMBER: 60/134,112  
/ PRIOR FILING DATE: 1999-05-14  
/ NUMBER OF SEQ ID NOS: 13  
/ SOFTWARE: PaetSeq for windows Version 4.0  
/ SEQ ID NO 4  
/ LENGTH: 1907  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
/ FEATURE:  
/ NAME/KEY: CDS  
/ LOCATION: (96)...(1211)  
/ OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
/ OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 2.88; Score 216; DB 4; Length 1907;  
Best Local Similarity 66.7%; Pred. No. 2.2e-52;  
Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

QY 6999 AGGTATTAATCAAAACGAGAGATCTGGAACGGGTGATGGCCGACGGCTGCTTACAAG 7058  
DB 1095 AGGTACTACTACAAACGGAGATCTGGAACGGGTGATGGCCGACGGCTGCTTACAAG 1154  
QY 7059 TTTGGCAAGACTCTAGTGGCTGGAAGGAAGAGAGGTTGGAGAGAGTCCGAATTAAAGA 7118  
DB 1155 TTTGGCAAAACTCAACGGGTGGAAGGAAGAGAGGTTCCGAGAGTCCGAAGTGAAGG 1214  
QY 7119 TGGGGGTGAGCCAGAGAGCTGATCAGGCTGAGTGAATCTCGAAGTGAAGCTTCTTGAA 7178  
DB 1215 TTGGAACTATACCGGAGCAAACTCAAGGACCACTGAGGCTGCAAACTTCTTGGA 1274

QY 7179 GAGCAGGAGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7238  
DB 1275 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1333  
QY 7239 GAAAGACTGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 7293  
DB 1334 AAGCTGATGT 1393  
QY 7294 --TCTCTGCGCCCTCTTGAATTACAAGCCCGGGTTTGAACCACTTGT----- 7341  
DB 1394 CTCGCCACCTCTCTTGGATTACAGCCCTGGGGTTTGAAGTGACTTATAGCTGCA 1453  
QY 7342 --TCGATTAATCTTTCAGCTGTGATTCAGATTCCCTCCCTCCACATGAGCTCAAT 7399  
DB 1454 AGTGATCTCTCTTTATCTGTGCTCTCTCAAACTCCAGTCTCAGACACTTAAATGACAG 1513  
QY 7400 GAGAC---CCACTGCGAGATGCTGCTCAGGCCAAGAGAGGCTGGGAGACTGTGGAGG 7456  
DB 1514 AACACCTTCTTCTGCGAGACCTTGAAGTGAAGGCTGGAGGCTGGAGGCTCT---AG 1569  
QY 7457 AGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7513  
DB 1570 GAGAGCACCGTGATGAGAGAGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1629  
QY 7514 CACCTCTTCTCAGTACTGAGGCTCAGACAGAGGAGGAGGAGGAGGAGGAGGAGGAGG 7572  
DB 1630 CACCTCTCTCTCAGTACTGAGGCTCAGACAGGAGGAGGAGGAGGAGGAGGAGGAGG 1689  
QY 7573 TCGTATTA--AATATTCAGAGTATATATAGAGAGTATTTTCTAAAGCATTTCCCTCC 7630  
DB 1690 TCGTATTAAT 1749  
QY 7631 CTGCTCTTCTCAGTACTGAGGCTGAG 7654  
DB 1750 CACTCTCTCTCCACAGAGTGTCTGG 1773

## RESULT 3

US-08-746-789A-1  
/ Sequence 1, Application US/08746789A  
/ Patent No. 5789200  
/ GENERAL INFORMATION:  
/ APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
/ TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3  
/ NUMBER OF SEQUENCES: 4  
/ CORRESPONDENCE ADDRESS:  
/ ADDRESSEE: SmithKline Beecham Corporation  
/ STREET: 709 Swedeland Road, P.O. Box 1539  
/ CITY: King of Prussia  
/ STATE: PA  
/ COUNTRY: USA  
/ ZIP: 19406-0939  
/ COMPUTER READABLE FORM:  
/ MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
/ COMPUTER: IBM 486  
/ OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
/ SOFTWARE: MICROSOFT WORD  
/ CURRENT APPLICATION DATA:  
/ APPLICATION NUMBER: US/08/746,789A  
/ FILING DATE: No. 5789200el 15, 1996  
/ CLASSIFICATION: 514  
/ PRIOR APPLICATION DATA:  
/ APPLICATION NUMBER:  
/ FILING DATE:  
/ ATTORNEY/AGENT INFORMATION:  
/ NAME: William T. Han  
/ REGISTRATION NUMBER: 34,344  
/ REFERENCE/DOCKET NUMBER: ATG 50024  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: 610 270 5219  
/ TELEFAX: 610 270 4026  
/ INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1920  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: No  
US-08-746-789A-1

Query Match 2.8%; Score 215.6; DB 1; Length 1920;  
Best Local Similarity 65.6%; Pred. No. 2.9e-52;  
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

6999 AGGTATTACTACAAAGGAGATCTGGAACGGGTGATGGCCGACGGCTCTACAAAG 7058  
1114 AGGTACTACTACAAAGGAGATCTGGAACGGGTGATGGCCGACGGCTCTACAAAG 1173  
7059 TTTGGCAAGAACTCTAGTGGCTGAAAGAAAGAGTTGAGAGAGTGGAAATTAAAGA 7118  
1174 TTTGGCAAAACTCAAGCGGCTGAAAGAGAGAGTTCTCCAGAGTCGAACTGAGGG 1233  
7119 TCGGGGCTGACCCAGAGCTGATCAGCATGATCTCCAGAACTGAAAGCTTCTGGAA 7178  
1234 TTGGAACATAACCCGGAGCAAACTCAGGACCTGAGGCTGCAAACTTCTGGGA 1293  
7179 GACAGGAGAGGCTGACGCGCCCTTAAATGATGTTCCCTGTTGCTGTAAGAG 7238  
1294 GAGACAGGAGGCTGATG-CCCTTCACTGGGAATGCTCCAGCTGCTGTAAGAG 1352  
7239 GAAGAACCTGTTGGGCGTGCCTCTGC--AGTCTCTCAAGTGCAGCCCTTGGCTC- 7293  
1353 AAGCTGATGTTTGGTATTTGTCAGCATGCTCTGAGACCTGAGACATATGAGCTCGC 1412  
7294 --TCTCTGCGCCCTTGGAAATCAAGCCCGGTTGAACCACTTGTCA----- 7345  
1413 CTCGCCACCTCTCTTGAATTAAGCCCTGGGTTGAAGCTGACCTTATAGTGA 1472  
7346 -----TACTCTTCAGCTGATTCAGTTCCCTCCGTCCTCAACATGAGCTGCA 7397  
1473 AGGTATCTCTTTTATCTGTGCTCTTCAAAACCGATCTGACAGACTAAATGACAGA 1532  
7398 ATGAGACCACTGACAGATCTGAGCTCTGACCAAGAGGCTGGGAGACTGAGAGA 7457  
1533 ACACCTTCTCTGACAGACCTGAGCTGAGCCAAAGAGGCTGGG--GAGGGCTGAGG 1590  
7458 GACTGCAGGAGCGGAGGAGCAGGCTGTCTCTCG----TACTTCTGAGCTGCTTC 7513  
1591 GAGCACCGTATGAGAGGAGCAGAGGAGGCTCCAGCACTTCTTGTGAGCTGGGCT 1650  
7514 CACTCTTGTCTGATCTGAGCTCAGAGCTCAGAGCGGGGTGAGATCA-TCCCTAATTATG 7572  
1651 CACTCTCTGCTAGTCTGCTGGCTCCAGGGGAGGGGCTAGAGCACTCCCTAATTATG 1710  
7573 TGC--TATAAATATTCAGGTGATATAGAGATATTTTCTAAAGCAATTCCTCC 7630  
1711 TGTATATAAATATGTCAGATGATACATATGATCTATTTTCTAAAGCAATTCCTCC 1770  
7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
1771 CACTCTCTCTCCACAGAGTCTGG 1794

RESULT 4  
US-09-389-681-282  
Sequence 282, Application US/09389681A  
Patent No. 6518237  
GENERAL INFORMATION:  
APPLICANT: Yugui, Jiang  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.470C3

CURRENT APPLICATION NUMBER: US/09/389,681A  
CURRENT FILING DATE: 1999-09-02  
NUMBER OF SEQ ID NOS: 463  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-389-681-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
Best Local Similarity 88.9%; Pred. No. 1.7e-37;  
Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

6256 GCGCCGAGGATCTACCTGAGGAGTTATCCGAGATCTATCCACCCGAGCTC 6315  
258 GCGCCGAGGAGGACCCACTGTGGAGTTATCCGAGATCTATCCACCCGAGCTC 6317  
6316 AACGAGGCTCATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCTGCTCA 6375  
318 AACGAGGCTCATGAGTGGAGAAATCGCATGAAAGGCTTCAAGTTCTGCGCTCC 377  
6376 GAGGCGTGGCCCACTTGGGCGCCAGAGAGAGAAACAGCAACATGACTATGAGAG 6435  
378 GAGGCTGTGGCCCACTATGGGCGCCAAAGAAAGAAACAGCAACATGACTATGAGAG 437  
6436 CTGAGCGGAGCCATGAGT 6454  
438 CTGAGCGGAGCCATGAGT 456

RESULT 5  
US-09-620-405B-282  
Sequence 282, Application US/09620405B  
Patent No. 6528054  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yugui  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jianshun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Hepler, William T.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C8  
CURRENT APPLICATION NUMBER: US/09/620,405B  
CURRENT FILING DATE: 2000-07-20  
NUMBER OF SEQ ID NOS: 495  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-620-405B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
Best Local Similarity 88.9%; Pred. No. 1.7e-37;  
Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

6256 GCGCCGAGGATCTACCTGAGGAGTTATCCGAGATCTATCCACCCGAGCTC 6315  
258 GCGCCGAGGAGGACCCACTGTGGAGTTATCCGAGATCTATCCACCCGAGCTC 6317  
6316 AACGAGGCTCATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCTGCTCA 6375  
318 AACGAGGCTCATGAGTGGAGAAATCGCATGAAAGGCTTCAAGTTCTGCGCTCC 377  
6376 GAGGCGTGGCCCACTTGGGCGCCAGAGAGAGAAACAGCAACATGACTATGAGAG 6435  
378 GAGGCTGTGGCCCACTATGGGCGCCAAAGAAAGAAACAGCAACATGACTATGAGAG 437  
6436 CTGAGCGGAGCCATGAGT 6454

Db 438 CTGAGCCGGGCATGAGGT 456

## RESULT 6

US-09-339-338-282  
Sequence 282, Application US/09339338A

Patent No. 6573368

GENERAL INFORMATION:

APPLICANT: Yugui, Jiong

APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.

APPLICANT: Xu, Jiangchun

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.470C2

CURRENT APPLICATION NUMBER: US/09/339,338A

CURRENT FILING DATE: 1999-06-23

NUMBER OF SEQ ID NOS: 315

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 282

LENGTH: 502

TYPE: DNA

ORGANISM: Homo sapiens

US-09-339-338-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 1.7e-37;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Db 6256 GCGCCAGAGTACTCACTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 317

Qy 6316 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCA 6375

Db 318 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCC 377

Qy 6376 GAGGCGGTGGCCCACTCTGGGGCCAGAGAGAGAGAACGACATGACCTATGAGAG 6435

Db 378 GAGGCTGTGGCCCACTATGAGGCGCCAGAGAGAGAGAACGACATGACCTATGAGAG 437

Qy 6436 CTGAGCCGAGCATGAGGT 6454

Db 438 CTGAGCCGAGCATGAGGT 456

RESULT 7

US-09-433-826B-282

Sequence 282, Application US/09433826B

Patent No. 6579973

GENERAL INFORMATION:

APPLICANT: Jiong, Yugui

APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.

APPLICANT: Xu, Jiangchun

APPLICANT: Harlocker, Susan L.

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.470C4

CURRENT APPLICATION NUMBER: US/09/433,826B

CURRENT FILING DATE: 1999-11-03

NUMBER OF SEQ ID NOS: 474

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 282

LENGTH: 502

TYPE: DNA

ORGANISM: Homo sapiens

US-09-433-826B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 1.7e-37;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Db 6256 GCGCCAGAGTACTCACTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 317

Qy 6316 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCA 6375

Db 318 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCC 377

Qy 6376 GAGGCGGTGGCCCACTCTGGGGCCAGAGAGAGAGAACGACATGACCTATGAGAG 6435

Db 378 GAGGCTGTGGCCCACTATGAGGCGCCAGAGAGAGAGAACGACATGACCTATGAGAG 437

Qy 6436 CTGAGCCGAGCATGAGGT 6454

Db 438 CTGAGCCGAGCATGAGGT 456

RESULT 8

US-09-604-287A-282

Sequence 282, Application US/09604287A

Patent No. 6586572

GENERAL INFORMATION:

APPLICANT: Jiong, Yugui

APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.

APPLICANT: Xu, Jiangchun

APPLICANT: Harlocker, Susan L.

APPLICANT: Hepler, William T.

US-09-604-287A-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 1.7e-37;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Db 6256 GCGCCAGAGTACTCACTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 317

Qy 6316 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCA 6375

Db 318 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCC 377

Qy 6376 GAGGCGGTGGCCCACTCTGGGGCCAGAGAGAGAGAACGACATGACCTATGAGAG 6435

Db 378 GAGGCTGTGGCCCACTATGAGGCGCCAGAGAGAGAGAACGACATGACCTATGAGAG 437

Qy 6436 CTGAGCCGAGCATGAGGT 6454

Db 438 CTGAGCCGAGCATGAGGT 456

RESULT 9

US-09-834-759-282

Sequence 282, Application US/09834759

Patent No. 6680197

GENERAL INFORMATION:

APPLICANT: Jiong, Yugui

APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.

APPLICANT: Xu, Jiangchun

APPLICANT: Harlocker, Susan L.

APPLICANT: Hepler, William T.

US-09-834-759-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 1.7e-37;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Db 6256 GCGCCAGAGTACTCACTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCCGAGCTC 317

Qy 6316 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCA 6375

Db 318 AACGAGGCTCTATGAGTGGAGAACCGGACGAGGCTGTTCAGATTCTTCGCTCC 377

Qy 6376 GAGGCGGTGGCCCACTCTGGGGCCAGAGAGAGAGAACGACATGACCTATGAGAG 6435

Db 378 GAGGCTGTGGCCCACTATGAGGCGCCAGAGAGAGAGAACGACATGACCTATGAGAG 437

Qy 6436 CTGAGCCGAGCATGAGGT 6454

Db 438 CTGAGCCGAGCATGAGGT 456



APPLICANT: Henderson, Robert A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C9  
CURRENT APPLICATION NUMBER: US/09/834,759  
NUMBER OF SEQ ID NOS: 547  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-834-759-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
Best Local Similarity 88.9%; Pred. No. 1.7e-37;  
Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGTACTACCTGTGGAGTTATCCGAGACATCCATCCACCCGAGCTC 6315  
DB 258 GCCCCAGAGGACCCACCTGTGGAGTTATCCGAGACATCCATCCACCCGAGCTC 317  
QY 6316 AACGAAGCCTCATGAAATGGGAGAACCGGACAGAGGCTGTTCAGATTCTTCCTCA 6375  
DB 318 AACGAGGCTCATGAAATGGGAGAACCGGACATGAGGCTGTTCAGATTCTTCCTCC 377  
QY 6376 GAGGCGGTGGCCCAACTCTGGGCGCAGAGAAGAAAGAACATGACTATGAGAAG 6435  
DB 378 GAGGCTGTGGCCCAACTATGAGGCGCAAAAAGAAAGAACATGACTATGAGAAG 437  
QY 6436 CTGAGCCGAGCATGAGGT 6454  
DB 438 CTGAGCCGAGCATGAGGT 456

RESULT 10  
US-09-590-751A-282  
Sequence 282, Application US/09590751A  
Patent No. 6756477  
GENERAL INFORMATION:  
APPLICANT: Yuhui, Jiang  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
TITLE OF INVENTION: COMPOSITIONS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C6  
CURRENT APPLICATION NUMBER: US/09/590,751A  
CURRENT FILING DATE: 2000-06-08  
NUMBER OF SEQ ID NOS: 479  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-590-751A-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
Best Local Similarity 88.9%; Pred. No. 1.7e-37;  
Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGTACTACCTGTGGAGTTATCCGAGACATCCATCCACCCGAGCTC 6315  
DB 258 GCCCCAGAGGACCCACCTGTGGAGTTATCCGAGACATCCATCCACCCGAGCTC 317  
QY 6316 AACGAAGCCTCATGAAATGGGAGAACCGGACAGAGGCTGTTCAGATTCTTCCTCA 6375  
DB 318 AACGAGGCTCATGAAATGGGAGAACCGGACATGAGGCTGTTCAGATTCTTCCTCC 377  
QY 6376 GAGGCGGTGGCCCAACTCTGGGCGCAGAGAAGAAAGAACATGACTATGAGAAG 6435  
DB 378 GAGGCTGTGGCCCAACTATGAGGCGCAAAAAGAAAGAACATGACTATGAGAAG 437

QY 6436 CTGAGCCGAGCATGAGGT 6454  
DB 438 CTGAGCCGAGCATGAGGT 456

RESULT 11  
US-09-016-434-927  
Sequence 927, Application US/09016434  
Patent No. 6500938  
GENERAL INFORMATION:  
APPLICANT: Janice Au-Young  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
NUMBER OF SEQUENCES: 1490  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,434  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 927:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 237 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLNCR101  
CLONE: 773734  
US-09-016-434-927

Query Match 1.6%; Score 125.6; DB 4; Length 237;  
Best Local Similarity 79.3%; Pred. No. 1.6e-26;  
Matches 149; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 6999 AGGTATTACTACAAACGAGAGATCTGGAACGGGTGATGAGCGGAGCTGCTTCAAG 7058  
DB 50 AGGTATTACTACAAACGAGAGATCTGGAACGGGTGATGAGCGGAGCTGCTTCAAG 109  
QY 7059 TTGGGCAAGACTCTTGTGTGGTGAAGGAAGAGGTTGAGAGAGTGGAAATTAAAGA 7118  
DB 110 TTGGGCAAAACCTCAAGCGGCTGGAAGGAAGAGGTTCTCAAGTGGAACTGAAGG 169  
QY 7119 TCGGGGCTGAGCCGAGAGCTGAGTCAAGGATGAATCCAGAACTGAAGCTTCTCGAA 7178  
DB 170 TTGGAATCTATCCCGGAGCAAACTCAGACCACTCGAGGCTCGAAACTTCTCTGGA 229  
QY 7179 GGAAGGC 7186  
DB 230 GGAAGGC 237

RESULT 12  
US-09-245-041-4

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/ Sequence 4, Application US/09245041
/ Patent No. 6274339
/ GENERAL INFORMATION:
/ APPLICANT: Moore, K.
/ APPLICANT: Nagle, D.
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT
/ TITLE OF INVENTION: OF BODY WEIGHT DISORDERS INCLUDING OBESITY
/ FILE REFERENCE: 7853-136
/ CURRENT APPLICATION NUMBER: US/09/245,041
/ CURRENT FILING DATE: 1999-02-05
/ EARLIER APPLICATION NUMBER: 60/093,630
/ EARLIER FILING DATE: 1998-07-21
/ EARLIER APPLICATION NUMBER: 60/104,978
/ EARLIER FILING DATE: 1998-10-20
/ NUMBER OF SEQ ID NOS: 131
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 4
/ LENGTH: 5973
/ TYPE: DNA
/ ORGANISM: Mus musculus
/ US-09-245-041-4

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Db 5630 CATTTCATTCTAC 5647

RESULT 15  
US-09-020-956-44/c  
; Sequence 44, Application US/09020956  
; Patent No. 6261562  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillin, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/020,956  
; FILING DATE: 09-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; US-09-020-956-44

Query Match 1.5%; Score 115.4; DB 3; Length 852;  
Best Local Similarity 74.1%; Pred. No. 4.5e-23;  
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCGAGGCTACTCACCCTGTGGAGTTTATCCGAGACATCTAATCCACCCCGAGCTCAA 6317  
Db 401 CCCGAGAGGAGCTCACTTATGGGAATTCATCCGACATCTCTTGAACCCAGACAAGAA 342  
QY 6318 CGAAGCCTCATGAAGTGGAGAACCGGACGAGGGTGTGTGAAGTTTCTTGCCTCAGA 6377  
Db 341 CCCAGATTATATTAATATGGGAAGACCGATCTGAGGGGCTTTCAGGTTCTTGAATCAGA 282  
QY 6378 GGGCGTGGCCCACTCTGGGGCCAGAAAGAAAGAACAGCAATGACCTATGAGAAGCT 6437  
Db 281 GGCAGTGGCTCAGCTATGGGTTAAAAAGAAAGAACACAGCATTGACCTATGAAAAGCT 222  
QY 6438 GAGCCGAGCCATGAGGT 6454  
Db 221 CAGCCGAGCTATGAGAT 205

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:42:48 ; Search time 9.84905 Seconds  
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11515.905 Million cell updates/sec

Title: US-08-978-217-14

Perfect score: 21

Sequence: 1 GTACCTCATGCGCCGGCTCAG 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 3: /cgn2\_6/ptodaca/1/pubpna/US05\_PUBCOMB.seq:\*
- 4: /cgn2\_6/ptodaca/1/pubpna/US04\_PUBCOMB.seq:\*
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- 19: /cgn2\_6/ptodaca/1/pubpna/US89\_PUBCOMB.seq:\*
- 20: /cgn2\_6/ptodaca/1/pubpna/US88\_PUBCOMB.seq:\*
- 21: /cgn2\_6/ptodaca/1/pubpna/US87\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100.0	237	16	US-10-305-720-927	Sequence 927, App
2	100.0	451	9	US-09-998-598-32	Sequence 32, Appl
3	100.0	499	9	US-09-998-598-2290	Sequence 2290, App
4	100.0	502	9	US-09-604-287A-282	Sequence 282, App
5	100.0	502	9	US-09-834-759-282	Sequence 282, App
6	100.0	502	9	US-09-339-338-282	Sequence 282, App
7	100.0	502	10	US-09-551-621-282	Sequence 282, App
8	100.0	502	13	US-10-007-805-282	Sequence 282, App
9	100.0	502	14	US-10-076-622-282	Sequence 282, App
10	100.0	502	15	US-10-124-805-282	Sequence 282, App
11	100.0	1907	14	US-10-097-340-74	Sequence 74, Appl
12	100.0	1907	15	US-10-291-808-27	Sequence 27, Appl

C 13	21	100.0	1915	9	US-09-964-824A-101	Sequence 101, App
C 14	21	100.0	1915	9	US-09-964-824A-563	Sequence 563, App
C 15	21	100.0	1915	9	US-09-880-107-3420	Sequence 3420, App
C 16	21	100.0	1915	9	US-09-967-768A-192	Sequence 192, App
C 17	21	100.0	1917	9	US-09-922-217-1105	Sequence 1105, App
C 18	21	100.0	1917	13	US-10-025-380-1105	Sequence 1105, App
C 19	21	100.0	1956	16	US-10-264-049-756	Sequence 756, App
C 20	21	100.0	1996	9	US-09-925-301-207	Sequence 207, App
C 21	21	100.0	2269	15	US-10-131-410-64	Sequence 64, Appl
C 22	19	100.0	275	14	US-10-060-036-3261	Sequence 3261, App
C 23	19	90.5	1435	15	US-10-017-161-1853	Sequence 1953, App
C 24	19	90.5	1435	15	US-10-292-798-1601	Sequence 1601, App
C 25	17.4	82.9	1839	17	US-10-437-963-82892	Sequence 82892, A
C 26	16.8	80.0	7813	10	US-09-854-867-27	Sequence 27, Appl
C 27	16.8	80.0	9025608	15	US-10-156-761-1	Sequence 1, Appl
C 28	16.4	78.1	619	15	US-10-291-172-388	Sequence 388, App
C 29	16.4	78.1	619	13	US-10-221-278-388	Sequence 388, App
C 30	16.4	78.1	733	16	US-10-027-632-149050	Sequence 149050, App
C 31	16.4	78.1	733	15	US-10-027-632-149050	Sequence 149050, App
C 32	16.4	78.1	1629	16	US-10-641-643-528	Sequence 528, App
C 33	16.4	78.1	1851	15	US-10-156-761-5632	Sequence 5632, App
C 34	16.4	78.1	2034	13	US-10-027-632-109965	Sequence 109965, App
C 35	16.4	78.1	2034	15	US-10-027-632-109965	Sequence 109965, App
C 36	16.4	78.1	2212	9	US-09-919-497-25	Sequence 25, Appl
C 37	16.4	78.1	2450	16	US-10-388-934-599	Sequence 599, App
C 38	16.4	78.1	10332	9	US-09-764-868-1471	Sequence 1471, App
C 39	16.4	78.1	130427	14	US-10-175-523-87	Sequence 87, Appl
C 40	16.4	78.1	9025608	15	US-10-156-761-1	Sequence 1, Appl
C 41	16.2	77.1	366	15	US-10-187-267A-10	Sequence 10, Appl
C 42	16.2	77.1	402	16	US-10-242-533A-7139	Sequence 7139, App
C 43	16.2	77.1	402	16	US-10-085-783A-7139	Sequence 7139, App
C 44	16.2	77.1	470	16	US-10-242-533A-42404	Sequence 42404, A
C 45	16.2	77.1	470	16	US-10-085-783A-42404	Sequence 42404, A

#### ALIGNMENTS

RESULT 1  
US-10-305-720-927/c  
; Sequence 927, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OR INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305, 720  
; PRIOR FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016, 434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 927  
; LENGTH: 237  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734  
US-10-305-720-927

Query Match 100.0%; Score 21; DB 16; Length 237;  
Best Local Similarity 100.0%; Pred. No. 1;  
Matches 21; Conservative 0; Mismatches 0; Gaps 0;  
Db 55 GTACCTCATGCGCCGGCTCAG 21  
1 GTACCTCATGCGCCGGCTCAG 21  
RESULT 2  
US-09-998-598-32/c  
; Sequence 32, Application US/0998598

Patent No. US20020150922A1  
GENERAL INFORMATION:  
APPLICANT: Stolk, John A.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Chenault, Ruth A.  
APPLICANT: Meagher, Madeline Joy  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.561  
CURRENT APPLICATION NUMBER: US/09/998,598  
CURRENT FILING DATE: 2001-11-16  
NUMBER OF SEQ ID NOS: 2606  
SOFTWARE: Corixa Invention Disclosure Database  
SEQ ID NO 32  
LENGTH: 451  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-998-598-32

Query Match 100.0%; Score 21; DB 9; Length 451;  
Best Local Similarity 100.0%; Pred. No. 0.96;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 109 GTACTCATGCGCCGGCTCAG 89

RESULT 3  
US-09-998-598-2290  
Sequence 2290, Application US/0998598  
Patent No. US20020150922A1  
GENERAL INFORMATION:  
APPLICANT: Stolk, John A.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Chenault, Ruth A.  
APPLICANT: Meagher, Madeline Joy  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.561  
CURRENT APPLICATION NUMBER: US/09/998,598  
CURRENT FILING DATE: 2001-11-16  
NUMBER OF SEQ ID NOS: 2606  
SOFTWARE: Corixa Invention Disclosure Database  
SEQ ID NO 2290  
LENGTH: 499  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-998-598-2290

Query Match 100.0%; Score 21; DB 9; Length 499;  
Best Local Similarity 100.0%; Pred. No. 0.95;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 156 GTACTCATGCGCCGGCTCAG 176

RESULT 4  
US-09-604-287A-282/c  
Sequence 282, Application US/09604287A  
Patent No. US20020064872A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yugui  
APPLICANT: Dillon, Devin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Hedler, William T.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C7

CURRENT APPLICATION NUMBER: US/09/604,287A  
CURRENT FILING DATE: 2000-06-22  
NUMBER OF SEQ ID NOS: 489  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 9; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.95;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 458 GTACTCATGCGCCGGCTCAG 438

RESULT 5  
US-09-834-759-282/c  
Sequence 282, Application US/09834759  
Publication No. US20020085998A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yugui  
APPLICANT: Dillon, Devin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Hedler, William T.  
APPLICANT: Henderson, Robert A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C9  
CURRENT APPLICATION NUMBER: US/09/834,759  
CURRENT FILING DATE: 2001-04-13  
NUMBER OF SEQ ID NOS: 547  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-834-759-282

Query Match 100.0%; Score 21; DB 9; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.95;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 458 GTACTCATGCGCCGGCTCAG 438

RESULT 6  
US-09-339-338-282/c  
Sequence 282, Application US/09339338A  
Patent No. US20020102602A1  
GENERAL INFORMATION:  
APPLICANT: Yugui, Jiang  
APPLICANT: Dillon, Devin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND  
FILE REFERENCE: 210121.470C2  
CURRENT APPLICATION NUMBER: US/09/339,338A  
CURRENT FILING DATE: 1999-06-23  
NUMBER OF SEQ ID NOS: 315  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens

US-09-339-338-282

## Query Match

Best Local Similarity 100.0%; Score 21; DB 9; Length 502;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21

DB 458 GTACCTCATGCGCCGGCTCAG 438

## RESULT 7

US-09-551-621-282/c

; Sequence 282, Application US/09551621  
; Publication No. US20030104366A1

; GENERAL INFORMATION:

; APPLICANT: Yugu, Jiang

; APPLICANT: Dillon, Devin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; FILE REFERENCE: 210121.470C5

; CURRENT APPLICATION NUMBER: US/09/551,621

; CURRENT FILING DATE: 2000-04-17

; NUMBER OF SEQ ID NOS: 479

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-551-621-282

## Query Match

Best Local Similarity 100.0%; Score 21; DB 10; Length 502;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21

DB 458 GTACCTCATGCGCCGGCTCAG 438

## RESULT 8

US-10-007-805-282/c

; Sequence 282, Application US/10007805  
; Publication No. US20020150581A1

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yugu

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; APPLICANT: Henderson, Robert A.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: McNeill, Patricia D.

; APPLICANT: Durham, Margarita

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.470C10

; CURRENT APPLICATION NUMBER: US/10/007,805

; CURRENT FILING DATE: 2001-12-07

; NUMBER OF SEQ ID NOS: 593

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-007-805-282

Query Match 100.0%; Score 21; DB 13; Length 502;

Best Local Similarity 100.0%; Pred. No. 0.95;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21

DB 458 GTACCTCATGCGCCGGCTCAG 438

## RESULT 9

US-10-076-622-282/c

; Sequence 282, Application US/10076622  
; Publication No. US20030023036A1

; GENERAL INFORMATION:

; APPLICANT: Houghton, Raymond L.

; APPLICANT: Sleath, Paul R.

; APPLICANT: Persing, David H.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.470C11

; CURRENT APPLICATION NUMBER: US/10/076,622

; CURRENT FILING DATE: 2002-02-13

; NUMBER OF SEQ ID NOS: 627

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-076-622-282

## Query Match

Best Local Similarity 100.0%; Score 21; DB 14; Length 502;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21

DB 458 GTACCTCATGCGCCGGCTCAG 438

## RESULT 10

US-10-124-805-282/c

; Sequence 282, Application US/10124805  
; Publication No. US20030166022A1

; GENERAL INFORMATION:

; APPLICANT: Houghton, Raymond L.

; APPLICANT: Sleath, Paul R.

; APPLICANT: Persing, David H.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.470C12

; CURRENT APPLICATION NUMBER: US/10/124,805

; CURRENT FILING DATE: 2002-04-15

; NUMBER OF SEQ ID NOS: 627

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-124-805-282

## Query Match

Best Local Similarity 100.0%; Score 21; DB 15; Length 502;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21

DB 458 GTACCTCATGCGCCGGCTCAG 438

## RESULT 11

US-10-097-340-74/c

; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1

; GENERAL INFORMATION:

APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNAVARAPU  
APPLICANT: Sebastian HOERSCH  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Aml SEN  
APPLICANT: Peter VERIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
FILE REFERENCE: MRI-030  
CURRENT FILING DATE: US/10/097,340  
PRIOR APPLICATION NUMBER: 2002-03-14  
PRIOR FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 74  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 100.0%; Score 21; DB 14; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.83;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
DB 1100 GTACCTCATGGCCGGCTCAG 1080

RESULT 12  
US-10-291-808-27/c  
Sequence 27, Application US/10291808  
Publication No. US20030224382A1  
GENERAL INFORMATION:  
APPLICANT: McClelland, Michael  
APPLICANT: Welsh, John  
APPLICANT: Trenkle, Thomas  
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
TITLE OF INVENTION: Using Same  
FILE REFERENCE: P-PH 3457  
CURRENT APPLICATION NUMBER: US/10/291,808  
CURRENT FILING DATE: 2002-11-07  
PRIOR APPLICATION NUMBER: US/09/300,958  
PRIOR FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/083,331  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/098,070  
PRIOR FILING DATE: 1998-08-27  
PRIOR APPLICATION NUMBER: 60/118,624  
PRIOR FILING DATE: 1999-02-04

NUMBER OF SEQ ID NOS: 85  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-291-808-27

Query Match 100.0%; Score 21; DB 15; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.83;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
DB 1100 GTACCTCATGGCCGGCTCAG 1080

RESULT 13  
US-09-964-824A-101/c  
Sequence 101, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horrigan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
TITLE OF INVENTION: Sets  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964,824A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236,033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,028  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 101  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-964-824A-101

Query Match 100.0%; Score 21; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.83;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
DB 1124 GTACCTCATGGCCGGCTCAG 1104

RESULT 14  
US-09-964-824A-563/c  
Sequence 563, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horrigan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
TITLE OF INVENTION: Sets  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964,824A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236,033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,028  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 563  
LENGTH: 1915  
TYPE: DNA



ORGANISM: Homo sapiens  
US-09-964-824A-563

Query Match 100.0%; Score 21; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.83;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

## RESULT 15

US-09-880-107-3420/C  
Sequence 3420, Application US/09880107  
Patent No. US20020142981A1  
GENERAL INFORMATION:  
APPLICANT: Horne, Darci T.  
APPLICANT: Vockley, Joseph G.  
APPLICANT: Scherf, Uwe  
APPLICANT: Gene Logic, Inc.  
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
FILE REFERENCE: 44921-5028-WO  
CURRENT FILING DATE: 2001-06-14  
PRIOR FILING DATE: 2001-06-14  
PRIOR APPLICATION NUMBER: US 60/211,379  
PRIOR FILING DATE: 2000-06-14  
PRIOR APPLICATION NUMBER: US 60/237,054  
PRIOR FILING DATE: 2000-10-02  
NUMBER OF SEQ ID NOS: 3950  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 3420  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843  
US-09-880-107-3420

Query Match 100.0%; Score 21; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.83;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

Search completed: November 15, 2004, 23:08:56  
Job time : 19.8491 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:35:22 ; Search time 1.77407 Seconds  
(without alignments)  
8413.757 Million cell updates/sec

Title: US-08-978-217-14

Perfect score: 21  
Sequence: 1 GTACCTCATGGCCGGCTCAG 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA: \*  
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2: /cgn2\_6/prodata/1/ina/5A COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/6C COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/backfile1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	237	4	US-09-016-434-927
2	21	100.0	502	4	US-09-389-681-282
3	21	100.0	502	4	US-09-620-4058-282
4	21	100.0	502	4	US-09-339-338-282
5	21	100.0	502	4	US-09-433-826B-282
6	21	100.0	502	4	US-09-604-287A-282
7	21	100.0	502	4	US-09-834-759-282
8	21	100.0	502	4	US-09-590-751A-282
9	21	100.0	1907	4	US-09-300-958A-27
10	21	100.0	1907	4	US-09-570-593-4
11	21	100.0	1920	1	US-08-746-789A-1
12	16.4	78.1	1629	4	US-09-023-655-528
13	16.4	78.1	2212	4	US-09-919-497-25
14	16.4	78.1	5499	3	US-08-479-722B-1
15	16.4	78.1	5499	3	US-09-592-685-1
16	16.4	78.1	5502	2	PCT-US95-02251-17
17	16.2	77.1	2266	2	US-08-213-767-1
18	16.2	77.1	4403765	3	US-09-103-840A-2
19	16.2	77.1	4403765	3	US-09-103-840A-2
20	16.2	77.1	4411529	3	US-09-103-840A-1
21	16.2	77.1	4411529	3	US-09-103-840A-1
22	15.8	75.2	671	3	US-09-129-030-29
23	15.8	75.2	1479	3	US-08-868-373-3
24	15.8	75.2	1533	3	US-09-522-217-88
25	15.8	75.2	1533	4	US-09-923-246-88
26	15.8	75.2	1533	4	US-10-295-723-88
27	15.8	75.2	2224	4	US-09-221-017B-384

28	15.8	75.2	2877	4	US-09-619-353-1	Sequence 1, Appl
29	15.8	75.2	3072	3	US-09-522-217-55	Sequence 55, Appl
30	15.8	75.2	3072	4	US-09-923-246-55	Sequence 55, Appl
31	15.8	75.2	3072	4	US-10-295-723-55	Sequence 55, Appl
32	15.8	75.2	3072	4	US-09-825-561A-46	Sequence 46, Appl
33	15.4	73.3	1935	4	US-09-495-050A-190	Sequence 190, Appl
34	15.2	72.4	429	4	US-09-621-976-360	Sequence 3260, Ap
35	15.2	72.4	848	3	US-09-009-913-338	Sequence 338, Ap
36	15.2	72.4	856	4	US-09-535-008-55	Sequence 55, Appl
37	15.2	72.4	1110	4	US-09-543-681A-342	Sequence 3342, Ap
38	15.2	72.4	2218	4	US-09-350-457A-1	Sequence 1, Appl
39	15.2	72.4	2385	3	US-08-352-902D-145	Sequence 145, Appl
40	15.2	72.4	2484	2	US-08-209-521-8	Sequence 8, Appl
41	15.2	72.4	2484	3	US-08-961-810-4	Sequence 4, Appl
42	15.2	72.4	2484	3	US-08-352-902D-4	Sequence 4, Appl
43	15.2	72.4	2484	4	US-09-265-503B-4	Sequence 4, Appl
44	15.2	72.4	2484	4	US-09-708-200-16	Sequence 16, Appl
45	15.2	72.4	2484	4	US-09-788-657-10	Sequence 10, Appl

#### ALIGNMENTS

RESULT 1  
US-09-016-434-927/c  
Sequence 927, Application US/09016434  
Patent No. 6500938  
GENERAL INFORMATION:  
APPLICANT: Janice Au-Young  
APPLICANT: Jeffrey J. Seilhammer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
NUMBER OF SEQUENCES: 1490  
CORRESPONDENCE ADDRESS:  
ADDRESSER: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,434  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002, US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 927:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 237 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLNCR01  
CLONE: 773734  
US-09-016-434-927  
Query Match 100.0%; Score 21; DB 4; Length 237;  
Best Local Similarity Pred. No. 0.44;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21  
|||||  
Db 55 GTACCTCATGCGCCGGCTCAG 35

RESULT 2  
US-09-389-681-282/c  
; Sequence 282, Application US/09389681A  
; Patent No. 6518237  
; GENERAL INFORMATION:  
; APPLICANT: Yuqiu, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C3  
; CURRENT APPLICATION NUMBER: US/09/389,681A  
; CURRENT FILING DATE: 1999-09-02  
; NUMBER OF SEQ ID NOS: 463  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-389-681-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21  
|||||  
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 3  
US-09-620-4058-282/c  
; Sequence 282, Application US/09620405B.  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
; FILE REFERENCE: 210121.470C8  
; CURRENT APPLICATION NUMBER: US/09/620,405B  
; CURRENT FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-620-4058-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21  
|||||  
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 4  
US-09-339-338-282/c

; Sequence 282, Application US/09339338A  
; Patent No. 6573368  
; GENERAL INFORMATION:  
; APPLICANT: Yuqiu, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C2  
; CURRENT APPLICATION NUMBER: US/09/339,338A  
; CURRENT FILING DATE: 1999-06-23  
; NUMBER OF SEQ ID NOS: 315  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21  
|||||  
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 5  
US-09-433-826B-282/c  
; Sequence 282, Application US/09433826B  
; Patent No. 6579973  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C4  
; CURRENT APPLICATION NUMBER: US/09/433,826B  
; CURRENT FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21  
|||||  
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 6  
US-09-604-287A-282/c  
; Sequence 282, Application US/09604287A  
; Patent No. 6565572  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C7  
CURRENT APPLICATION NUMBER: US/09/604,287A  
CURRENT FILING DATE: 2000-06-22  
NUMBER OF SEQ ID NOS: 489  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 458 GTACTCATGCGCCGGCTCAG 438

RESULT 7  
US-09-834-759-282/c  
Sequence 282, Application US/09834759  
Patent No. 6680197  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yugui  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jianshun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Hedler, William T.  
APPLICANT: Henderson, Robert A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C9  
CURRENT APPLICATION NUMBER: US/09/834,759  
CURRENT FILING DATE: 2001-04-13  
NUMBER OF SEQ ID NOS: 547  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-834-759-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 458 GTACTCATGCGCCGGCTCAG 438

RESULT 8  
US-09-590-751A-282/c  
Sequence 282, Application US/09590751A  
Patent No. 6756477  
GENERAL INFORMATION:  
APPLICANT: Yugui, Jiang  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jianshun  
APPLICANT: Harlocker, Susan L.  
TITLE OF INVENTION: COMPOSITIONS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C6  
CURRENT APPLICATION NUMBER: US/09/590,751A  
CURRENT FILING DATE: 2000-06-08  
NUMBER OF SEQ ID NOS: 479  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282

LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-590-751A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 458 GTACTCATGCGCCGGCTCAG 438

RESULT 9  
US-09-300-958A-27/c  
Sequence 27, Application US/09300958A  
Patent No. 6495319  
GENERAL INFORMATION:  
APPLICANT: McClelland, Michael  
APPLICANT: Welsh, John  
APPLICANT: Trenkle, Thomas  
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
FILE REFERENCE: P-PH 3457  
CURRENT APPLICATION NUMBER: US/09/300,958A  
CURRENT FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/083,331  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/098,070  
PRIOR FILING DATE: 1998-08-27  
PRIOR APPLICATION NUMBER: 60/118,624  
PRIOR FILING DATE: 1999-02-04  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-300-958A-27

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.49;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCCGGCTCAG 21  
Db 1100 GTACTCATGCGCCGGCTCAG 1080

RESULT 10  
US-09-570-593-4/c  
Sequence 4, Application US/09570593  
Patent No. 6566063  
GENERAL INFORMATION:  
APPLICANT: Kaufmann, Joerg  
APPLICANT: Xin, Hong  
APPLICANT: Harlowe, Greg  
TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
FILE REFERENCE: 2300-1556  
CURRENT APPLICATION NUMBER: US/09/570,593  
CURRENT FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: 60/134,112  
PRIOR FILING DATE: 1999-05-14  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS

LOCATION: (96)...(1211)  
OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.49;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCGGCTCAG 21  
DB 1100 GTACTCATGCGCGGCTCAG 1080

RESULT 11  
US-08-746-789A-1/C  
Sequence 1, Application US/08746789A  
Patent No. 5789200

GENERAL INFORMATION:  
APPLICANT: Ismail Kola, Martin J. Tyms, Christine Debouck  
TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road, P.O. Box 1539  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA  
ZIP: 19406-0939

COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
COMPUTER: IBM 486  
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
SOFTWARE: MICROSOFT WORD

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/746,789A  
FILING DATE: No. 5789200ember 15, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: William T. Han  
REGISTRATION NUMBER: 34,344  
REFERENCE/DOCKET NUMBER: ATG 50024  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610 270 5219  
TELEFAX: 610 270 4026  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1920  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: No  
US-08-746-789A-1

Query Match 100.0%; Score 21; DB 1; Length 1920;  
Best Local Similarity 100.0%; Pred. No. 0.49;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACTCATGCGCGGCTCAG 21  
DB 1119 GTACTCATGCGCGGCTCAG 1099

RESULT 12  
US-09-023-655-528/C  
Sequence 528, Application US/09023655  
Patent No. 6607879

GENERAL INFORMATION:  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1508  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,655  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 528:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1629 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: SPLNOT02  
CLONE: 207681  
US-09-023-655-528

Query Match 78.1%; Score 16.4; DB 4; Length 1629;  
Best Local Similarity 94.4%; Pred. No. 73;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CCTCATGCGCGGCTCAG 21  
DB 312 CCTCATGCGCGGCTCAG 295

RESULT 13  
US-09-919-497-25/C  
Sequence 25, Application US/09919497  
Patent No. 6773883

GENERAL INFORMATION:  
APPLICANT: Mutter, George L.  
TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER  
FILE REFERENCE: B0801/7225  
CURRENT APPLICATION NUMBER: US/09/919,497  
CURRENT FILING DATE: 2001-07-31  
PRIOR APPLICATION NUMBER: US 60/221,735  
PRIOR FILING DATE: 2000-07-31  
NUMBER OF SEQ ID NOS: 100  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 25  
LENGTH: 2212  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: Unsure  
LOCATION: (625)...(625)  
OTHER INFORMATION: n = a, c, g or t/u

US-09-919-497-25

Query Match 78.1%; Score 16.4; DB 4; Length 2212;  
Best Local Similarity 94.4%; Pred. No. 74;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CCTCATGCGCCGGCTCAG 21  
884 CCTCTTGCGCCGGCTCAG 867

RESULT 14

US-08-479-722B-1/c  
; Sequence 1, Application US/08479722B  
; Patent No. 6074840  
; GENERAL INFORMATION:  
; APPLICANT: Bonadio, Jeffrey  
; APPLICANT: Yin, Wushan  
; TITLE OF INVENTION: LATENT TGF ( BINDING PROTEIN (LTBP)  
; TITLE OF INVENTION: GENES, COMPOSITIONS AND METHODS  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Williams, Morgan & Amereson  
; STREET: 7676 Hillmont, Suite 250  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77040  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/479,722B  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US PCT/US95/02251  
; FILING DATE: 21-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/316,650  
; FILING DATE: 30-SEP-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/199,780  
; FILING DATE: 18-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fussey, Shelley P.M.  
; REGISTRATION NUMBER: 39,458  
; REFERENCE/DOCKET NUMBER: 4100.000500/FUS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (713) 934-7000  
; TELEFAX: (713) 934-7011  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE:  
; DESCRIPTION: /desc = "DNA"  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..5499  
; US-08-479-722B-1

Query Match 78.1%; Score 16.4; DB 3; Length 5499;  
Best Local Similarity 94.4%; Pred. No. 78;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCGCCGGCTCA 20  
3158 ACCTCATGCGCCGGCTCA 3141

RESULT 15

US-09-592-685-1/c  
; Sequence 1, Application US/09592685  
; Patent No. 6774105  
; GENERAL INFORMATION:  
; APPLICANT: Bonadio, Jeffrey  
; APPLICANT: Yin, Wushan  
; TITLE OF INVENTION: LATENT TGF ( BINDING PROTEIN (LTBP)  
; TITLE OF INVENTION: GENES, COMPOSITIONS AND METHODS  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Williams, Morgan & Amereson  
; STREET: 7676 Hillmont, Suite 250  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77040  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/592,685  
; FILING DATE: 12-JUN-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/479,722B  
; FILING DATE: 07-JUN-1995  
; APPLICATION NUMBER: US PCT/US95/02251  
; FILING DATE: 21-FEB-1995  
; APPLICATION NUMBER: US 08/316,650  
; FILING DATE: 30-SEP-1994  
; APPLICATION NUMBER: US 08/199,780  
; FILING DATE: 18-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fussey, Shelley P.M.  
; REGISTRATION NUMBER: 39,458  
; REFERENCE/DOCKET NUMBER: 4100.000500/FUS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (713) 934-7000  
; TELEFAX: (713) 934-7011  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: <Unknown>  
; DESCRIPTION: /desc = "DNA"  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..5499  
; US-09-592-685-1

Query Match 78.1%; Score 16.4; DB 4; Length 5499;  
Best Local Similarity 94.4%; Pred. No. 78;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCGCCGGCTCA 20  
3158 ACCTCATGCGCCGGCTCA 3141

Search completed: November 15, 2004, 14:14:11  
Job time : 10.7741 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:42:48 ; Search time 9.84905 Seconds  
(without alignments)  
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Title: US-08-978-217-13

Perfect score: 21  
Sequence: 1 CCGGACATCTCATCCACC 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapept 1.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database:

Published Applications NA:\*

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- 2: /cgn2\_6/prodata/1/pubpna/US06\_PUBCOMB.seq:\*
- 3: /cgn2\_6/prodata/1/pubpna/US06\_PUBCOMB.seq:\*
- 4: /cgn2\_6/prodata/1/pubpna/US06\_PUBCOMB.seq:\*
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- 12: /cgn2\_6/prodata/1/pubpna/US09\_PUBCOMB.seq:\*
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- 15: /cgn2\_6/prodata/1/pubpna/US10\_PUBCOMB.seq:\*
- 16: /cgn2\_6/prodata/1/pubpna/US10\_PUBCOMB.seq:\*
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- 19: /cgn2\_6/prodata/1/pubpna/US10\_PUBCOMB.seq:\*
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- 21: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	275	14	US-10-060-036-3261
2	21	100.0	499	9	US-08-998-598-2290
3	21	100.0	502	9	US-09-604-2874-282
4	21	100.0	502	9	US-09-834-759-282
5	21	100.0	502	9	US-09-339-338-282
6	21	100.0	502	10	US-09-551-621-282
7	21	100.0	502	13	US-10-007-805-282
8	21	100.0	502	14	US-10-076-622-282
9	21	100.0	502	15	US-10-124-805-282
10	21	100.0	1435	15	US-10-017-161-1953
11	21	100.0	1435	15	US-10-292-798-1601
12	21	100.0	1907	14	US-10-097-340-74

13	21	100.0	1907	15	US-10-291-808-27	Sequence 27, App1
14	21	100.0	1915	9	US-09-964-824A-101	Sequence 101, App
15	21	100.0	1915	9	US-09-964-824A-563	Sequence 563, App
16	21	100.0	1915	9	US-09-880-107-3420	Sequence 3420, App
17	21	100.0	1915	9	US-09-967-768A-192	Sequence 192, App
18	21	100.0	1917	9	US-09-922-217-1105	Sequence 1105, App
19	21	100.0	1917	13	US-10-025-380-1105	Sequence 1105, App
20	21	100.0	1956	16	US-10-264-049-756	Sequence 756, App
21	21	100.0	1966	9	US-09-925-301-207	Sequence 207, App
22	21	100.0	2269	15	US-10-131-410-64	Sequence 64, App1
23	18.4	87.6	566	18	US-10-425-115-115220	Sequence 115220, App
24	17.8	84.8	250	9	US-09-864-761-21324	Sequence 21324, App
25	17.8	84.8	472	9	US-09-864-761-4580	Sequence 4580, App
26	16.8	80.0	471	10	US-09-918-995-23822	Sequence 23822, App
27	16.8	80.0	639	18	US-10-425-115-136062	Sequence 136062, App
28	16.8	80.0	792	13	US-10-027-632-138998	Sequence 138998, App
29	16.8	80.0	792	13	US-10-027-632-138998	Sequence 138998, App
30	16.8	80.0	792	15	US-10-027-632-138998	Sequence 138998, App
31	16.8	80.0	792	15	US-10-027-632-138998	Sequence 138998, App
32	16.8	80.0	825	15	US-10-369-493-43197	Sequence 43197, App
33	16.8	80.0	1321	16	US-10-425-114-3408	Sequence 3408, App
34	16.8	80.0	1604	16	US-10-425-114-33705	Sequence 33705, App
35	16.8	80.0	1626	16	US-10-156-761-4976	Sequence 4976, App
36	16.8	80.0	1635	17	US-10-437-963-10443	Sequence 10443, App
37	16.8	80.0	1702	18	US-10-425-115-20976	Sequence 20976, App
38	16.8	80.0	2283	17	US-10-767-701-13528	Sequence 13528, App
39	16.8	80.0	2297	16	US-10-425-114-10844	Sequence 10844, App
40	16.8	80.0	2497	16	US-10-425-114-32345	Sequence 32345, App
41	16.8	80.0	2539	14	US-10-198-846-13456	Sequence 13456, App
42	16.8	80.0	3049	15	US-10-120-988-186	Sequence 186, App
43	16.8	80.0	3083	16	US-10-138-588-21	Sequence 21, App1
44	16.8	80.0	9025608	15	US-10-156-761-1	Sequence 1, App1
45	16.4	78.1	25	16	US-10-161-493-166	Sequence 166, App

#### ALIGNMENTS

RESULT 1  
US-10-060-036-3261  
; Sequence 3261, Application US/10060036  
; Publication No. US20030073144A1  
; GENERAL INFORMATION:  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Peters, David H.  
; APPLICANT: Hepler, William T.  
; APPLICANT: Jiang, Yugu  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER  
; FILE REFERENCE: 210121.566  
; CURRENT APPLICATION NUMBER: US/10/060,036  
; CURRENT FILING DATE: 2002-01-30  
; NUMBER OF SEQ ID NOS: 4560  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3261  
; LENGTH: 275  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-060-036-3261

Query Match 100.0%; Score 21; DB 14; Length 275;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCATCCACC 21  
Db 109 CCGGACATCTCATCCACC 129

RESULT 2  
US-09-998-598-2290/c

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/ Sequence 2290, Application US/0998598
/ Patent No. US20020150922A1
/ GENERAL INFORMATION:
/ APPLICANT: Stolk, John A.
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Chenault, Ruth A.
/ APPLICANT: Meagher, Madelein Joy
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.561
/ CURRENT APPLICATION NUMBER: US/09/998,598
/ CURRENT FILING DATE: 2001-11-16
/ NUMBER OF SEQ ID NOS: 2606
/ SOFTWARE: Corixa Invention Disclosure Database
/ SEQ ID NO 2290
/ LENGTH: 499
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-998-598-2290
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Query Match 100.0%; Score 21; DB 9; Length 499;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 CCGGACATCTCTCATCCACC 21
DB 324 CCGGACATCTCTCATCCACC 304
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RESULT 3
US-09-604-287A-282
/ Sequence 282, Application US/09604287A
/ Patent No. US20020064872A1
/ GENERAL INFORMATION:
/ APPLICANT: Jiang, Yugui
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Hepler, William T.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.470C7
/ CURRENT APPLICATION NUMBER: US/09/604,287A
/ CURRENT FILING DATE: 2000-06-22
/ NUMBER OF SEQ ID NOS: 489
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 282
/ LENGTH: 502
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-604-287A-282
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```
Query Match 100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310
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```
RESULT 4
US-09-834-759-282
/ Sequence 282, Application US/09834759
/ Publication No. US20020085998A1
/ GENERAL INFORMATION:
/ APPLICANT: Jiang, Yugui
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Hepler, William T.
```

```
/ APPLICANT: Henderson, Robert A.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.470C9
/ CURRENT APPLICATION NUMBER: US/09/834,759
/ CURRENT FILING DATE: 2001-04-13
/ NUMBER OF SEQ ID NOS: 547
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 282
/ LENGTH: 502
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-834-759-282
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Query Match 100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310
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RESULT 5
US-09-339-338-282
/ Sequence 282, Application US/09339338A
/ Patent No. US20020102602A1
/ GENERAL INFORMATION:
/ APPLICANT: Yugui, Jiang
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Xu, Jiangchun
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND
/ FILE REFERENCE: 210121.470C2
/ CURRENT APPLICATION NUMBER: US/09/339,338A
/ CURRENT FILING DATE: 1999-06-23
/ NUMBER OF SEQ ID NOS: 315
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 282
/ LENGTH: 502
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-339-338-282
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```
Query Match 100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 CCGGACATCTCTCATCCACC 21
DB 290 CCGGACATCTCTCATCCACC 310
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```
RESULT 6
US-09-551-621-282
/ Sequence 282, Application US/09551621
/ Publication No. US20030104366A1
/ GENERAL INFORMATION:
/ APPLICANT: Yugui, Jiang
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Harlocker, Susan L.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND
/ FILE REFERENCE: 210121.470C5
/ CURRENT APPLICATION NUMBER: US/09/551,621
/ CURRENT FILING DATE: 2000-04-17
/ NUMBER OF SEQ ID NOS: 479
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 282
/ LENGTH: 502
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TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-551-621-282

Query Match 100.0%; Score 21; DB 10; Length 502;  
Best Local Similarity 100.0%; Pred. No. 3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 290 CCGGACATCTCATCCACC 310

## RESULT 7

US-10-007-805-282  
Sequence 282, Application US/10007805  
Publication No. US20020150581A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yugu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Hepler, William T.  
APPLICANT: Henderson, Robert A.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedwick, Thomas S.  
APPLICANT: McNeill, Patricia D.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C10  
CURRENT APPLICATION NUMBER: US/10/007,805  
CURRENT FILING DATE: 2001-12-07  
NUMBER OF SEQ ID NOS: 593  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-007-805-282

Query Match 100.0%; Score 21; DB 13; Length 502;  
Best Local Similarity 100.0%; Pred. No. 3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 290 CCGGACATCTCATCCACC 310

## RESULT 8

US-10-076-622-282  
Sequence 282, Application US/10076622  
Publication No. US2003023036A1  
GENERAL INFORMATION:  
APPLICANT: Houghton, Raymond L.  
APPLICANT: Sleath, Paul R.  
APPLICANT: Persing, David H.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C11  
CURRENT APPLICATION NUMBER: US/10/076,622  
CURRENT FILING DATE: 2002-02-13  
NUMBER OF SEQ ID NOS: 627  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-076-622-282

Query Match 100.0%; Score 21; DB 14; Length 502;

Best Local Similarity 100.0%; Pred. No. 3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 290 CCGGACATCTCATCCACC 310

## RESULT 9

US-10-124-805-282  
Sequence 282, Application US/10124805  
Publication No. US20030166022A1  
GENERAL INFORMATION:  
APPLICANT: Houghton, Raymond L.  
APPLICANT: Sleath, Paul R.  
APPLICANT: Persing, David H.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C12  
CURRENT APPLICATION NUMBER: US/10/124,805  
CURRENT FILING DATE: 2002-04-15  
NUMBER OF SEQ ID NOS: 627  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-124-805-282

Query Match 100.0%; Score 21; DB 15; Length 502;  
Best Local Similarity 100.0%; Pred. No. 3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 290 CCGGACATCTCATCCACC 310

## RESULT 10

US-10-017-161-1953/C  
Sequence 1953, Application US/10017161  
Publication No. US20030143668A1  
GENERAL INFORMATION:  
APPLICANT: SUMA, MAKIKO  
APPLICANT: ASAI, KIYOSHI  
APPLICANT: AKIYAMA, YUTAKA  
APPLICANT: ABURATANI, HIROYUKI  
TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS  
FILE REFERENCE: 08435/0152  
CURRENT APPLICATION NUMBER: US/10/017,161  
CURRENT FILING DATE: 2002-12-18  
PRIOR APPLICATION NUMBER: JP 2001/246789  
PRIOR FILING DATE: 2001-06-18  
NUMBER OF SEQ ID NOS: 2430  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1953  
LENGTH: 1435  
TYPE: DNA  
ORGANISM: Homo sapiens

FEATURE:  
NAME/KEY: source  
LOCATION: (1)..(1435)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (201)..(1235)  
FEATURE:  
NAME/KEY: modified\_base  
LOCATION: (1040)..(1139)  
OTHER INFORMATION: a, t, c, g, unknown or other  
FEATURE:  
NAME/KEY: modified\_base  
LOCATION: (1145)  
OTHER INFORMATION: a, t, c, g, unknown or other

US-10-017-161-1953

Query Match 100.0%; Score 21; DB 15; Length 1435;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
DB 335 CCGGACATCTCATCCACC 315

RESULT 11

US-10-292-798-1601/c  
; Sequence 1601, Application US/10292798  
; Publication No. US20030235833A1  
; GENERAL INFORMATION:  
; APPLICANT: SUMA, MAKIKO  
; APPLICANT: ASAI, KIYOSHI  
; APPLICANT: AKIYAMA, YUTAKA  
; APPLICANT: ABEYATANI, HIROYUKI  
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS  
; FILE REFERENCE: 084335/166  
; CURRENT APPLICATION NUMBER: US/10/292,798  
; PRIOR FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: 10/017,161  
; PRIOR FILING DATE: 2001-12-18  
; PRIOR APPLICATION NUMBER: JP 2001-246789  
; PRIOR FILING DATE: 2001-06-18  
; NUMBER OF SEQ ID NOS: 2070  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1601  
; LENGTH: 1435  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; LOCATION: source  
; FEATURE:  
; LOCATION: (1)..(1435)  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (201)..(1235)  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (1040)..(1139)  
; OTHER INFORMATION: a, t, c, g, unknown or other  
; NAME/KEY: modified\_base  
; LOCATION: (1145)..(1145)  
; OTHER INFORMATION: a, t, c, g, unknown or other  
US-10-292-798-1601

Query Match 100.0%; Score 21; DB 15; Length 1435;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
DB 335 CCGGACATCTCATCCACC 315

RESULT 12

US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1  
; GENERAL INFORMATION:  
; APPLICANT: John MONAHAN  
; APPLICANT: Manjula GANNAVARAPU  
; APPLICANT: Sebastian HOERSCHE  
; APPLICANT: Shubhangi KAMATYAR  
; APPLICANT: Steve G. KOVATS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT

; APPLICANT: Ami SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLS  
; APPLICANT: Robert C. BASF, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumei ZHAO

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
; Assessment, Prevention, and Therapy of Ovarian Cancer  
; FILE REFERENCE: MRI-030  
; CURRENT APPLICATION NUMBER: US/10/097,340  
; PRIOR FILING DATE: 2002-03-14  
; PRIOR APPLICATION NUMBER: 60/276,025  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/325,149  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/276,026  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/324,967  
; PRIOR FILING DATE: 2001/09/26  
; PRIOR APPLICATION NUMBER: 60/311,732  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/325,102  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/323,580  
; PRIOR FILING DATE: 2001-09-19  
; NUMBER OF SEQ ID NOS: 363  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 74  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 100.0%; Score 21; DB 14; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
DB 932 CCGGACATCTCATCCACC 952

RESULT 13

US-10-291-808-27  
; Sequence 27, Application US/10291808  
; Publication No. US20030224382A1  
; GENERAL INFORMATION:  
; APPLICANT: McCelland, Michael  
; APPLICANT: Welsh, John  
; APPLICANT: Trenkle, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/10/291,808  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: US/09/300,958  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-291-808-27

Query Match 100.0%; Score 21; DB 15; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCCTCATCCACC 21  
Db 932 CCGGACATCCTCATCCACC 952

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Db 956 CCGGACATCCTCATCCACC 976

Search completed: November 15, 2004, 23:08:46  
Job time: 14.8491 secs

RESULT 14  
US-09-964-824A-101

; Sequence 101, Application US/09964824A  
; Patent No. US20020102531A1

; GENERAL INFORMATION:

; APPLICANT: Horrigan, Stephen

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

; FILE REFERENCE: 689290-73

; CURRENT FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: US/09/964,824A

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,032

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,028

; PRIOR FILING DATE: 2000-09-28

; NUMBER OF SEQ ID NOS: 583

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 101

; LENGTH: 1915

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-964-824A-101

Query Match 100.0%; Score 21; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCCTCATCCACC 21  
Db 956 CCGGACATCCTCATCCACC 976

RESULT 15  
US-09-964-824A-563

; Sequence 563, Application US/09964824A

; Patent No. US20020102531A1

; GENERAL INFORMATION:

; APPLICANT: Horrigan, Stephen

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

; FILE REFERENCE: 689290-73

; CURRENT FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: US/09/964,824A

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,033

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,032

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,028

; PRIOR FILING DATE: 2000-09-28

; NUMBER OF SEQ ID NOS: 583

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 563

; LENGTH: 1915

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-964-824A-563

Query Match 100.0%; Score 21; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCCTCATCCACC 21

**This Page Blank (uspto)**

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model1

Run on: November 15, 2004, 13:35:22 ; Search time 1.77407 Seconds  
(without alignments)  
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Title: US-08-978-217-13

Sequence: 1 CCGGACATCCATCCATCCACC 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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3: /cgn2\_6/prodata/1/ina/6A.COMB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	502	US-09-389-681-282	Sequence 282, App
2	21	100.0	502	US-09-620-405B-282	Sequence 282, App
3	21	100.0	502	US-09-339-338-282	Sequence 282, App
4	21	100.0	502	US-09-433-826B-282	Sequence 282, App
5	21	100.0	502	US-09-604-287A-282	Sequence 282, App
6	21	100.0	502	US-09-834-759-282	Sequence 282, App
7	21	100.0	502	US-09-590-751A-282	Sequence 282, App
8	21	100.0	1907	US-09-300-958A-27	Sequence 27, App
9	21	100.0	1907	US-09-570-593-4	Sequence 4, App
10	21	100.0	1920	US-08-746-789A-1	Sequence 1, App
11	16.8	80.0	3049	US-09-774-528-186	Sequence 186, App
12	16.4	78.1	1086	US-09-328-352-99	Sequence 99, App
13	16.4	78.1	3346	US-09-684-405-5	Sequence 5, App
14	16.2	77.1	165	US-08-456-647B-1	Sequence 1, App
15	16.2	77.1	165	US-08-237-401A-1	Sequence 1, App
16	16.2	77.1	361	US-09-643-597-303	Sequence 303, App
17	16.2	77.1	361	US-09-480-884A-303	Sequence 303, App
18	16.2	77.1	361	US-09-542-615A-303	Sequence 303, App
19	16.2	77.1	361	US-09-606-421B-303	Sequence 303, App
20	16.2	77.1	427	US-09-630-940B-303	Sequence 303, App
21	16.2	77.1	427	US-09-328-111-567	Sequence 567, App
22	16.2	77.1	1002	US-09-540-236-849	Sequence 849, App
23	16.2	77.1	1195	US-09-270-767-13861	Sequence 13861, A
24	16.2	77.1	1223	US-09-814-915A-89	Sequence 89, App
25	16.2	77.1	1228	US-08-826-246-9	Sequence 9, App
26	16.2	77.1	1228	US-08-944-495-9	Sequence 9, App
27	16.2	77.1	1228	US-09-126-640-5	Sequence 5, App

28	16.2	77.1	1228	US-08-925-588-9	Sequence 9, App
29	16.2	77.1	1228	US-09-288-292A-5	Sequence 5, App
30	16.2	77.1	1228	US-09-372-044-9	Sequence 9, App
31	16.2	77.1	1228	US-08-825-486-9	Sequence 9, App
32	16.2	77.1	1228	US-08-826-246-9	Sequence 9, App
33	16.2	77.1	1228	US-09-614-912-139	Sequence 139, App
34	16.2	77.1	16891	US-09-486-147-1	Sequence 1, App
35	15.8	75.2	718	US-08-998-416-682	Sequence 682, App
36	15.8	75.2	1362	US-09-252-991A-10470	Sequence 10470, A
37	15.8	75.2	1264	US-09-252-991A-10598	Sequence 10598, A
38	15.8	75.2	1684	US-09-620-312D-287	Sequence 287, App
39	15.8	75.2	2190	US-09-252-991A-10256	Sequence 10256, A
40	15.4	73.3	1509	US-09-248-796A-4401	Sequence 4401, App
41	15.2	72.4	464	US-09-513-998C-889	Sequence 889, App
42	15.2	72.4	492	US-09-252-991A-880	Sequence 880, App
43	15.2	72.4	510	US-09-252-991A-4285	Sequence 4285, App
44	15.2	72.4	562	US-09-621-976-1319	Sequence 1319, App
45	15.2	72.4	636	US-09-702-705-1668	Sequence 1668, App

#### ALIGNMENTS

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RESULT 1
US-09-389-681-282
; Sequence 282, Application US/09389681A-
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqin, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.47003
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

Query Match      100.0%; Score 21; DB 4; Length 502;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCCATCCATCCACC 21
DB 290 CCGGACATCCATCCATCCACC 310

RESULT 2
US-09-620-405B-282
; Sequence 282, Application US/09620405B-
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.47008
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282

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LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-620-405B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTATCCACC 21  
DB 290 CCGGACATCTCTATCCACC 310

RESULT 3  
US-09-339-338-282  
Sequence 282, Application US/09339338A  
Patent No. 6573368

GENERAL INFORMATION:  
APPLICANT: Yugu, Jiong  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiongchun

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
FILE REFERENCE: 210121.470C2  
CURRENT APPLICATION NUMBER: US/09/339,338A  
CURRENT FILING DATE: 1999-06-23  
NUMBER OF SEQ ID NOS: 315

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502

TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTATCCACC 21  
DB 290 CCGGACATCTCTATCCACC 310

RESULT 4  
US-09-433-826B-282  
Sequence 282, Application US/09433826B  
Patent No. 6579973

GENERAL INFORMATION:  
APPLICANT: Jiong, Yugu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiongchun

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
FILE REFERENCE: 210121.470C4  
CURRENT APPLICATION NUMBER: US/09/433,826B  
CURRENT FILING DATE: 1999-11-03  
NUMBER OF SEQ ID NOS: 474

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502

TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTATCCACC 21

DB 290 CCGGACATCTCTATCCACC 310

RESULT 5  
US-09-604-287A-282  
Sequence 282, Application US/09604287A  
Patent No. 6586572

GENERAL INFORMATION:  
APPLICANT: Jiong, Yugu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiongchun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C7  
CURRENT APPLICATION NUMBER: US/09/604,287A  
CURRENT FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 489  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502

TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTATCCACC 21  
DB 290 CCGGACATCTCTATCCACC 310

RESULT 6  
US-09-834-759-282  
Sequence 282, Application US/09834759  
Patent No. 6680197

GENERAL INFORMATION:  
APPLICANT: Jiong, Yugu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiongchun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.470C9  
CURRENT APPLICATION NUMBER: US/09/834,759  
CURRENT FILING DATE: 2001-04-13  
NUMBER OF SEQ ID NOS: 547

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502

TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-834-759-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTATCCACC 21  
DB 290 CCGGACATCTCTATCCACC 310

RESULT 7  
US-09-590-751A-282



; Sequence 282, Application US/09590751A  
; Patent No. 6756477  
; GENERAL INFORMATION:  
; APPLICANT: Yugu, Jiang  
; APPLICANT: Dillon, David C.  
; APPLICANT: Mitchell, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; TITLE OF INVENTION: COMPOSITIONS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.47006  
; CURRENT APPLICATION NUMBER: US/09/590.751A  
; CURRENT FILING DATE: 2000-06-08  
; NUMBER OF SEQ ID NOS: 479  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-590-751A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 290 CCGGACATCTCATCCACC 310

## RESULT 8

US-09-300-958A-27  
; Sequence 27, Application US/09300958A  
; Patent No. 6495319  
; GENERAL INFORMATION:  
; APPLICANT: McClelland, Michael  
; APPLICANT: Welsh, John  
; APPLICANT: Trenkle, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/09/300.958A  
; CURRENT FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083.331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098.070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118.624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-300-958A-27

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 1.3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 932 CCGGACATCTCATCCACC 952

## RESULT 9

US-09-570-593-4  
; Sequence 4, Application US/09570593  
; Patent No. 6566063  
; GENERAL INFORMATION:  
; APPLICANT: Kaufmann, Joerg  
; APPLICANT: Xin, Hong

; APPLICANT: Harrowe, Greg  
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
; FILE REFERENCE: 2300-1556  
; CURRENT APPLICATION NUMBER: US/09/570.593  
; CURRENT FILING DATE: 2000-05-12  
; PRIOR APPLICATION NUMBER: 60/134.112  
; PRIOR FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (96)...(1211)  
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
; OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 1.3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
Db 932 CCGGACATCTCATCCACC 952

## RESULT 10

US-08-746-789A-1  
; Sequence 1, Application US/08746789A  
; Patent No. 5789200  
; GENERAL INFORMATION:  
; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SmithKline Beecham Corporation  
; STREET: 709 Swedeland Road, P.O. Box 1539  
; CITY: King of Prussia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19406-0939  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
; COMPUTER: IBM 486  
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
; SOFTWARE: MICROSOFT WORD  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/746.789A  
; FILING DATE: No. 5789200el 15, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: William T. Han  
; REGISTRATION NUMBER: 34,344  
; REFERENCE/DOCKET NUMBER: ATG 50024  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610 270 5219  
; TELEFAX: 610 270 4026  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1920  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
; ANTI-SENSE: NO  
US-08-746-789A-1

Query Match 100.0%; Score 21; DB 1; Length 1920;  
Best Local Similarity 100.0%; Pred. No. 1.3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 21  
DB 951 CCGGACATCTCATCCACC 971

## RESULT 11

US-09-774-528-186/c  
; Sequence 186, Application US/09774528  
; Patent No. 6743619  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Zhou, Ping  
; APPLICANT: Goodrich, Ryle  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Asundi, Vinod  
; APPLICANT: Ren, Feiyan  
; APPLICANT: Zhang, Jie  
; APPLICANT: Zhao, Qing A.  
; APPLICANT: Yang, Yonghong  
; APPLICANT: Xue, Aidong J.  
; APPLICANT: Wehrman, Tom  
; APPLICANT: Wang, Jian-Rui  
; APPLICANT: Wang, Dunrul  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: No. 6743619el Nucleic Acids and  
; FILE REFERENCE: Polypeptides  
; FILE REFERENCE: 802  
; CURRENT APPLICATION NUMBER: US/09/774,528  
; CURRENT FILING DATE: 2001-01-30  
; NUMBER OF SEQ ID NOS: 441  
; SOFTWARE: pt\_FL\_genes Version 2.0  
; SEQ ID NO 186  
; LENGTH: 3049  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (21)..(3002)  
US-09-774-528-186

Query Match 80.0%; Score 16.8; DB 4; Length 3049;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCGGACATCTCATCCACC 20  
DB 726 CCGGACATCTCATCCACC 707

## RESULT 12

US-09-328-352-99/c  
; Sequence 99, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 99  
; LENGTH: 1086  
; TYPE: DNA  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-99

Query Match 78.1%; Score 16.4; DB 4; Length 1086;  
Best Local Similarity 94.4%; Pred. No. 1.5e+02;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 4 GGACATCTCATCCACC 21  
DB 75 GGACATCTCATCCACC 58

## RESULT 13

US-09-684-405-5/c  
; Sequence 5, Application US/09684405  
; Patent No. 6770477  
; GENERAL INFORMATION:  
; APPLICANT: Dennis J. Slamon  
; APPLICANT: Juliana J. Oh  
; TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES  
; TITLE OF INVENTION: ASSOCIATED WITH HER-2/NEU OVEREXPRESSION  
; FILE REFERENCE: 30448, 79USU1  
; CURRENT APPLICATION NUMBER: US/09/684,405  
; CURRENT FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/157,923  
; PRIOR FILING DATE: 1999-10-06  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 3346  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-09-684-405-5

Query Match 78.1%; Score 16.4; DB 4; Length 3346;  
Best Local Similarity 94.4%; Pred. No. 1.7e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GGACATCTCATCCACC 21  
DB 3224 GGACATCTCATCCACC 3207

## RESULT 14

US-08-456-647B-1/c  
; Sequence 1, Application US/08456647B  
; Patent No. 5811516  
; GENERAL INFORMATION:  
; APPLICANT: Lemke Ph.D. et al., Greg E.  
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Fish & Richardson P.C.  
; STREET: 4225 Executive Square, Suite 1400  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: US  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/456,647B  
; FILING DATE: 02-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/237,401  
; FILING DATE: 02-MAY-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/884,486  
; FILING DATE: 15-MAY-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wetherell Ph.D., John R.  
; REGISTRATION NUMBER: 31,678  
; REFERENCE/DOCKET NUMBER: 07251/007002  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 678-5070  
TELEFAX: (619) 678-5099  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 165 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
IMMEDIATE SOURCE:  
CLONE: Tyro-1  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..165  
US-08-456-647B-1

Query Match 77.1%; Score 16.2; DB 1; Length 165;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGACATCCTCATCCACC 21  
Db 76 CCGGATCATCTCAAGCACCC 56

## RESULT 15

US-08-237-401A-1/C  
Sequence 1, Application US/08237401A  
Patent No. 5837448  
GENERAL INFORMATION:  
APPLICANT: Lemke Ph.D. et al., Greg E.  
TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES  
NUMBER OF SEQUENCES: 54  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: US  
ZIP: 92037  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/237,401A  
FILING DATE: 02-MAY-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/884,486  
FILING DATE: 15-MAY-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Haile Ph.D., Lisa A.  
REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07251/007001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 678-5070  
TELEFAX: (619) 678-5099  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 165 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
IMMEDIATE SOURCE:  
CLONE: Tyro-1  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..165  
US-08-237-401A-1

Query Match 77.1%; Score 16.2; DB 2; Length 165;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGACATCCTCATCCACC 21  
Db 76 CCGGATCATCTCAAGCACCC 56

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 21:57:02 ; Search time 26.9264 Seconds

(without alignments)  
3209.338 Million cell updates/sec

Title: US-08-978-217-12

Perfect score: 84  
Sequence: 1 KNSGCKKEEVYQSRN 16

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	Ygapop 10.0	Ygapext 0.5
	Fgapop 6.0	Fgapext 7.0
	Delpop 6.0	Delpext 7.0

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Total number of hits satisfying chosen parameters: 7250342

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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Database : Published Applications NA:\*

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11: /cgn2\_6/prodata/1/pubpna/US09C\_PUBCOMB.seq:\*  
12: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/prodata/1/pubpna/US10B\_PUBCOMB.seq:\*  
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20: /cgn2\_6/prodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
21: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARYS

Result No.	Score	Query Match	Length	DB ID	Description
1	84	100.0	237	16 US-10-305-720-927	Sequence 927, App
2	84	100.0	451	9 US-09-998-598-32	Sequence 32, App1
3	84	100.0	463	15 US-10-291-808-25	Sequence 25, App1
4	84	100.0	499	9 US-09-999-598-2290	Sequence 2290, App
5	84	100.0	528	14 US-10-066-543-3233	Sequence 3233, App
6	84	100.0	620	14 US-10-060-036-2379	Sequence 2379, App
7	84	100.0	1907	14 US-10-097-340-74	Sequence 74, App1
8	84	100.0	1907	15 US-10-291-808-27	Sequence 27, App1
9	84	100.0	1915	9 US-09-964-824A-101	Sequence 101, App
10	84	100.0	1915	9 US-09-964-824A-563	Sequence 563, App
11	84	100.0	1915	9 US-09-880-107-3420	Sequence 3420, App
12	84	100.0	1915	9 US-09-967-768A-192	Sequence 192, App
13	84	100.0	1917	9 US-09-925-217-1105	Sequence 1105, App
14	84	100.0	1917	13 US-10-025-580-1105	Sequence 1105, App
15	84	100.0	1956	16 US-10-264-049-156	Sequence 156, App
16	84	100.0	1996	9 US-09-925-301-207	Sequence 207, App
17	84	100.0	2269	15 US-10-111-410-64	Sequence 64, App1
18	57	67.9	1601	16 US-10-062-674-1730	Sequence 1730, App
19	52	61.9	1601	16 US-10-029-386-3052	Sequence 3052, App
20	50	59.5	535	15 US-10-316-253-263	Sequence 263, App
21	50	59.5	11788	16 US-10-205-331-3	Sequence 3, App1
22	50	59.5	11788	17 US-10-311-527-3	Sequence 3, App1
23	50	59.5	235070	13 US-10-087-192-1990	Sequence 1990, App
24	50	59.5	807	13 US-10-027-632-167020	Sequence 167020, App
25	49	58.3	807	15 US-10-027-632-167020	Sequence 167020, App
26	49	58.3	807	15 US-09-933-797-678	Sequence 678, App
27	48	57.1	1642	16 US-10-424-599-90786	Sequence 90786, App
28	48	57.1	2046	16 US-10-425-115-95484	Sequence 95484, App
29	48	57.1	36048	16 US-10-052-482-127	Sequence 127, App
30	47	56.0	402	10 US-09-918-995-33421	Sequence 33421, App
31	47	56.0	2498	16 US-10-424-599-130502	Sequence 130502, App
32	47	56.0	254366	10 US-09-822-871-3	Sequence 3, App1
33	47	56.0	254366	16 US-10-673-885-3	Sequence 3, App1
34	47	56.0	374849	13 US-10-087-192-1627	Sequence 1627, App
35	47	56.0	787	13 US-10-027-632-125191	Sequence 125191, App
36	46.5	55.4	787	15 US-10-027-632-125191	Sequence 125191, App
37	46.5	55.4	787	15 US-10-027-632-125191	Sequence 125191, App
38	46	54.8	495	16 US-10-424-599-99196	Sequence 99196, App
39	46	54.8	552	13 US-10-027-632-90917	Sequence 90917, App
40	46	54.8	552	15 US-10-027-632-90917	Sequence 90917, App
41	46	54.8	1035	16 US-10-282-122A-15940	Sequence 15940, App
42	46	54.8	1571	9 US-09-938-842A-4493	Sequence 4493, App
43	46	54.8	1571	11 US-09-938-842A-4493	Sequence 4493, App
44	46	54.8	2394	16 US-10-425-114-32979	Sequence 32979, App
45	46	54.8	3060	9 US-09-938-842A-760	Sequence 760, App

## ALIGNMENTS

RESULT 1  
US-10-305-720-927  
; Sequence 927, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 927  
; LENGTH: 237  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734

US-10-305-720-927

Alignment Scores:

Pred. No.:	4,96e-06	Length:	237
Score:	84.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	16	Gaps:	0

US-08-978-217-12 (1-16) x US-10-305-720-927 (1-237)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16

Db 116 AAAAAGCTCAAGCGCTGGAAGAGGAAAGAGTTCTCCAGAGTCGGAAC 163

RESULT 2

US-09-998-598-32

Sequence 32, Application US/09998598

Patent No. US20020150922A1

GENERAL INFORMATION:

APPLICANT: Stolk, John A.

APPLICANT: Xu, Jiangchun

APPLICANT: Chenault, Ruth A.

APPLICANT: Meagher, Madelein Joy

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

FILE REFERENCE: 210121.561

CURRENT APPLICATION NUMBER: US/09/998,598

CURRENT FILING DATE: 2001-11-16

NUMBER OF SEQ ID NOS: 2606

SOFTWARE: Corixa Invention Disclosure Database

SEQ ID NO 32

LENGTH: 451

TYPE: DNA

ORGANISM: Homo sapiens

US-09-998-598-32

Alignment Scores:

Pred. No.:	9,84e-06	Length:	451
Score:	84.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-12 (1-16) x US-09-998-598-32 (1-451)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16

Db 170 AAAAAGCTCAAGCGCTGGAAGAGGAAAGAGTTCTCCAGAGTCGGAAC 217

RESULT 3

US-10-291-808-25

Sequence 25, Application US/10291808

Publication No. US20030224382A1

GENERAL INFORMATION:

APPLICANT: McClelland, Michael

APPLICANT: Welsh, John

APPLICANT: Trenkle, Thomas

TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

FILE REFERENCE: P-PH 3457

CURRENT APPLICATION NUMBER: US/10/291,808

CURRENT FILING DATE: 2002-11-07

PRIOR APPLICATION NUMBER: US/09/300,958

PRIOR FILING DATE: 1999-04-27

PRIOR APPLICATION NUMBER: 60/083,331

PRIOR FILING DATE: 1998-04-27

PRIOR APPLICATION NUMBER: 60/098,070

PRIOR FILING DATE: 1998-08-27

PRIOR APPLICATION NUMBER: 60/118,624

PRIOR FILING DATE: 1999-02-04

NUMBER OF SEQ ID NOS: 85

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 25

LENGTH: 463

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: unsure

LOCATION: (368)

FEATURE:

NAME/KEY: unsure

LOCATION: (402)

FEATURE:

NAME/KEY: unsure

LOCATION: (458)

US-10-291-808-25

Alignment Scores:

Pred. No.:	1,01e-05	Length:	463
Score:	84.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	15	Gaps:	0

US-08-978-217-12 (1-16) x US-10-291-808-25 (1-463)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16

Db 8 AAAAAGCTCAAGCGCTGGAAGAGGAAAGAGTTCTCCAGAGTCGGAAC 55

RESULT 4

US-09-998-598-2290/c

Sequence 2290, Application US/09998598

Patent No. US20020150922A1

GENERAL INFORMATION:

APPLICANT: Stolk, John A.

APPLICANT: Xu, Jiangchun

APPLICANT: Chenault, Ruth A.

APPLICANT: Meagher, Madelein Joy

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

FILE REFERENCE: 210121.561

CURRENT APPLICATION NUMBER: US/09/998,598

CURRENT FILING DATE: 2001-11-16

NUMBER OF SEQ ID NOS: 2606

SOFTWARE: Corixa Invention Disclosure Database

SEQ ID NO 2290

LENGTH: 499

TYPE: DNA

ORGANISM: Homo sapiens

US-09-998-598-2290

Alignment Scores:

Pred. No.:	1,1e-05	Length:	499
Score:	84.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-12 (1-16) x US-09-998-598-2290 (1-499)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16

Db 95 AAAAAGCTCAAGCGCTGGAAGAGGAAAGAGTTCTCCAGAGTCGGAAC 48

RESULT 5

US-10-066-543-3233

Sequence 3233, Application US/10066543

Publication No. US20030087818A1

GENERAL INFORMATION:

APPLICANT: Jiang, Yugu

APPLICANT: Pyle, Ruth A.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Indira, Carol Yoseph  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Carter, Darrick  
APPLICANT: Fanger, Gary R.  
APPLICANT: Smith, Carole L.  
APPLICANT: Durham, Margarita  
APPLICANT: Scolk, John A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
FILE REFERENCE: 210121.563  
CURRENT APPLICATION NUMBER: US/10/066,543  
NUMBER OF SEQ ID NOS: 3417  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3233  
LENGTH: 528  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 438  
OTHER INFORMATION: n = A,T,C or G  
US-10-066-543-3233

Alignment Scores:  
Pred. No.: 1.16e-05 Length: 528  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-08-978-217-12 (1-16) x US-10-066-543-3233 (1-528)

QY 1 LysAenSerGlyTrrpLysGluGluValLeuGlnSerArgAsn 16  
DB 63 AAAAAGCTCAAGCGGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 110

RESULT 6  
US-10-060-036-2379  
Sequence 2379, Application US/10060036  
Publication No. US2003007314A1  
GENERAL INFORMATION:  
APPLICANT: Benson, Darin R.  
APPLICANT: Kalos, Michael D.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Persing, David H.  
APPLICANT: Hepler, William T.  
APPLICANT: Jiang, Yugu  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
FILE REFERENCE: 210121.566  
CURRENT APPLICATION NUMBER: US/10/060,036  
CURRENT FILING DATE: 2002-01-30  
NUMBER OF SEQ ID NOS: 4560  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2379  
LENGTH: 620  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 169, 456, 487, 488, 602  
OTHER INFORMATION: n = A,T,C or G  
US-10-060-036-2379

Alignment Scores:  
Pred. No.: 1.38e-05 Length: 620  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-08-978-217-12 (1-16) x US-10-060-036-2379 (1-620)

QY 1 LysAenSerGlyTrrpLysGluGluValLeuGlnSerArgAsn 16  
DB 63 AAAAAGCTCAAGCGGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 110

RESULT 7  
US-10-097-340-74

Sequence 74, Application US/10097340  
Publication No. US20030087250A1  
GENERAL INFORMATION:

APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNAVAPU  
APPLICANT: Sebastian HOERSCH  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, JR.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
FILE REFERENCE: MRI-030 Assessment, Prevention, and Therapy of Ovarian Cancer  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 74  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-097-340-74

Alignment Scores:  
Pred. No.: 4.58e-05 Length: 1907  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-08-978-217-12 (1-16) x US-10-097-340-74 (1-1907)

QY 1 LysAenSerGlyTrrpLysGluGluValLeuGlnSerArgAsn 16  
DB 1161 AAAAAGCTCAAGCGGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 1208

RESULT 8

```
US-10-291-808-27
; Sequence 27, Application US/10291808
; Publication No. US20030224382A1
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Tremble, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/10/291,808
; CURRENT FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US/09/300,958
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-291-808-27

Alignment Scores:
Pred. No.: 4.58e-05 Length: 1907
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-291-808-27 (1-1907)
Qy 1 LysAsnSerSerGlyTTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1161 AAAAAGCTCAAGCGGCTGGAGAGAGAGAGAGAGGTTCTCCAGAGTCGGAAC 1208

RESULT 9
US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-964-824A-101

Alignment Scores:
Pred. No.: 4.6e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
```

```
DB: 9 Gaps: 0
US-08-978-217-12 (1-16) x US-09-964-824A-101 (1-1915)
Qy 1 LysAsnSerSerGlyTTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAAGCTCAAGCGGCTGGAGAGAGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 10
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-964-824A-563

Alignment Scores:
Pred. No.: 4.6e-05 Length: 1915
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-964-824A-563 (1-1915)
Qy 1 LysAsnSerSerGlyTTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAAGCTCAAGCGGCTGGAGAGAGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 11
US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
; US-09-880-107-3420
```



Alignment Scores:  
Pred. No.: 4,6e-05 Length: 1915  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB: 9

US-08-978-217-12 (1-16) x US-09-880-107-3420 (1-1915)

Qy 1 LysAenSerGlyTTPlysgIugIuValleuGInSerArgAn 16  
Db 1185 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 12  
US-09-967-768A-192  
Sequence 192, Application US/09967768A  
Patent No. US20020150877A1  
GENERAL INFORMATION:  
APPLICANT: Anguetus, Meena  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE REFERENCE: 689290-72  
CURRENT APPLICATION NUMBER: US/09/967,768A  
CURRENT FILING DATE: 2001-09-28  
PRIOR APPLICATION NUMBER: US/60/236,109  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,034  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,111  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 325  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 192  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-967-768A-192

Alignment Scores:  
Pred. No.: 4,6e-05 Length: 1915  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB: 9

US-08-978-217-12 (1-16) x US-09-967-768A-192 (1-1915)

Qy 1 LysAenSerGlyTTPlysgIugIuValleuGInSerArgAn 16  
Db 1185 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 13  
US-09-922-217-1105  
Sequence 1105, Application US/09922217  
Patent No. US20020076414A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeline Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tonglong  
APPLICANT: Jiang, Yudi  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1105  
LENGTH: 1917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-922-217-1105

Alignment Scores:  
Pred. No.: 4,61e-05 Length: 1917  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB: 13

US-08-978-217-12 (1-16) x US-09-922-217-1105 (1-1917)

Qy 1 LysAenSerGlyTTPlysgIugIuValleuGInSerArgAn 16  
Db 1187 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 14  
US-10-025-380-1105  
Sequence 1105, Application US/10025380  
Patent No. US20020182191A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeline Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tonglong  
APPLICANT: Jiang, Yudi  
APPLICANT: Smith, Carole L.  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Skelley, Gary A. W.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick Thomas S.  
APPLICANT: Carter, Darick  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C14  
CURRENT APPLICATION NUMBER: US/10/025,380  
CURRENT FILING DATE: 2001-12-19  
NUMBER OF SEQ ID NOS: 1129  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1105  
LENGTH: 1917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-025-380-1105

Alignment Scores:  
Pred. No.: 4,61e-05 Length: 1917  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0  
DB: 13

US-08-978-217-12 (1-16) x US-10-025-380-1105 (1-1917)

Qy 1 LysAenSerGlyTTPlysgIugIuValleuGInSerArgAn 16  
Db 1187 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 15  
US-10-264-049-756  
; Sequence 756, Application US/10264049  
; Publication No. US20040005579A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antidodies  
; FILE REFERENCE: PA133PI  
; CURRENT APPLICATION NUMBER: US/10/264,049  
; CURRENT FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/16569  
; PRIOR FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: US 60/209,467  
; PRIOR FILING DATE: 2000-06-07  
; NUMBER OF SEQ ID NOS: 4360  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 756  
; LENGTH: 1956  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-264-049-756

Alignment Scores:  
Pred. No.: 4.71e-05 Length: 1956  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 16 Gaps: 0

US-08-978-217-12 (1-16) x US-10-264-049-756 (1-1956)

OY 1 LYSAsnSerSerGlyTyrPlySGluGluValLeuGlnSerArgAsn 16  
1226 AAAAAGCTCAAGCGCTGGAAGGAGGAAAGGTTCTCAGAGTCGGAAC 1273

Search completed: November 16, 2004, 03:19:05  
Job time : 35.4264 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 14:00:59 ; Search time 4.94062 Seconds  
(without alignments)  
2301.862 Million cell updates/sec

Title: US-08-978-217-12

Perfect score: 84  
Sequence: 1 KNSGKMBEELQSRN 16

Scoring table:

BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 824507 segs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seg length: 0  
Maximum DB seg length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

MODEL=frame+ p2n.model -DEV=xlp  
-O=/cgn2\_1/USPRO/spool\_p/US08978217/runat.15112004.103131.12764/app\_query.fasta\_1.1500  
-DB=Issued Patents NA -QFMT=fastcap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptio -NOR=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US08978217@cgn2\_1.1.213@runat.15112004.103131.12764 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEOBJECT -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOC  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PTCUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfillseq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	84	100.0	237	4	US-09-016-434-927 Sequence 927, App
2	84	100.0	463	4	US-09-300-958A-25 Sequence 25, Appl
3	84	100.0	1907	4	US-09-300-958A-27 Sequence 27, Appl
4	84	100.0	1907	4	US-09-570-593-4 Sequence 4, Appl
5	84	100.0	1920	4	US-08-746-789A-1 Sequence 1, Appl
6	47	56.0	2719	4	US-09-976-594-959 Sequence 959, App
7	47	56.0	254366	4	US-09-822-871-3 Sequence 3, Appl
8	46	54.8	1348	4	US-09-638-649-6 Sequence 6, Appl
9	46	54.8	8100	4	US-09-554-337-4 Sequence 4, Appl
10	46	54.8	11517	4	US-07-920-281C-1 Sequence 1, Appl
11	46	54.8	11517	3	US-08-466-277-1 Sequence 1, Appl
12	46	54.8	11517	4	US-09-688-842-1 Sequence 1, Appl

13	46	54.8	15538	4	US-09-554-337-1	Sequence 1, Appl
14	45	53.6	993	4	US-09-464-535-25	Sequence 25, Appl
15	45	53.6	7492	4	US-09-299-141-5	Sequence 5, Appl
16	45	53.6	10627	1	US-08-060-925A-12	Sequence 12, Appl
17	45	53.6	12222	4	US-09-328-975-42	Sequence 42, Appl
18	44	52.4	2763	4	US-09-668-680-8	Sequence 8, Appl
19	44	52.4	3396	4	US-09-668-680-6	Sequence 6, Appl
20	44	52.4	3423	4	US-09-668-680-7	Sequence 7, Appl
21	44	52.4	50000	3	US-09-146-053-4	Sequence 4, Appl
22	44	52.4	640681	4	US-09-790-988-1	Sequence 1, Appl
23	43	51.2	517	4	US-09-621-976-10337	Sequence 10337, A
24	43	51.2	4417	3	US-07-741-453A-57	Sequence 57, Appl
25	43	51.2	8543	3	US-08-496-944-1	Sequence 1, Appl
26	42.5	50.6	6396	4	US-09-620-312D-226	Sequence 226, App
27	42	50.0	244	4	US-09-513-999C-11811	Sequence 11811, A
28	42	50.0	546	4	US-09-248-796A-1499	Sequence 1499, Ap
29	42	50.0	694	2	US-08-537-400-15	Sequence 15, Appl
30	42	50.0	694	2	US-08-706-702-17	Sequence 17, Appl
31	42	50.0	694	3	US-08-706-706-17	Sequence 17, Appl
32	42	50.0	694	4	US-09-238-471-17	Sequence 17, Appl
33	42	50.0	1265	4	US-09-702-705-95	Sequence 95, Appl
34	42	50.0	1265	4	US-09-736-457-95	Sequence 95, Appl
35	42	50.0	1265	4	US-09-614-124B-95	Sequence 95, Appl
36	42	50.0	1265	4	US-09-671-325-95	Sequence 95, Appl
37	42	50.0	1265	4	US-09-589-184-95	Sequence 95, Appl
38	42	50.0	1265	4	US-09-658-824-95	Sequence 95, Appl
39	42	50.0	1383	4	US-09-270-767-21657	Sequence 6375, Ap
40	42	50.0	1383	4	US-08-484-661A-38	Sequence 38, Appl
41	42	50.0	1485	3	US-08-656-664-38	Sequence 38, Appl
42	42	50.0	1485	5	PCT-US96-09641-38	Sequence 38, Appl
43	42	50.0	1575	4	US-09-248-796A-4522	Sequence 4522, Ap
44	42	50.0	1716	3	US-08-484-661A-36	Sequence 36, Appl
45	42	50.0	1716	3	US-08-484-661A-36	Sequence 36, Appl

#### ALIGNMENTS

RESULT 1  
US-09-016-434-927  
; Sequence 927, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555

```

/ TELEFAX: (650) 845-4166
/ INFORMATION FOR SEQ ID NO: 927:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 237 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: COLNCR01
/ CLONE: 773734
US-09-016-434-927

Alignment Scores:
Pred. No.: 1.76e-06 Length: 237
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-016-434-927 (1-237)

QY 1 LysAenSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 116 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGATCGAAG 163

RESULT 2
US-09-300-958A-25
/ Sequence 25, Application US/09300958A
/ Patent No. 6495319
/ GENERAL INFORMATION:
/ APPLICANT: McClelland, Michael
/ APPLICANT: Welsh, John
/ APPLICANT: Trenkle, Thomas
/ TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
/ FILE REFERENCE: P-PH 3457
/ CURRENT APPLICATION NUMBER: US/09/300,958A
/ CURRENT FILING DATE: 1999-04-27
/ PRIOR APPLICATION NUMBER: 60/083,331
/ PRIOR FILING DATE: 1998-04-27
/ PRIOR APPLICATION NUMBER: 60/098,070
/ PRIOR FILING DATE: 1998-08-27
/ PRIOR APPLICATION NUMBER: 60/118,624
/ PRIOR FILING DATE: 1999-02-04
/ NUMBER OF SEQ ID NOS: 85
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 25
/ LENGTH: 463
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (368)
/ NAME/KEY: unsure
/ LOCATION: (402)
/ NAME/KEY: unsure
/ LOCATION: (458)
US-09-300-958A-25

Alignment Scores:
Pred. No.: 3.9e-06 Length: 463
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-300-958A-25 (1-463)

QY 1 LysAenSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 8 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGATCGAAG 55
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RESULT 3
US-09-300-958A-27
/ Sequence 27, Application US/09300958A
/ Patent No. 6495319
/ GENERAL INFORMATION:
/ APPLICANT: McClelland, Michael
/ APPLICANT: Welsh, John
/ APPLICANT: Trenkle, Thomas
/ TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
/ FILE REFERENCE: P-PH 3457
/ CURRENT APPLICATION NUMBER: US/09/300,958A
/ CURRENT FILING DATE: 1999-04-27
/ PRIOR APPLICATION NUMBER: 60/083,331
/ PRIOR FILING DATE: 1998-04-27
/ PRIOR APPLICATION NUMBER: 60/098,070
/ PRIOR FILING DATE: 1998-08-27
/ PRIOR APPLICATION NUMBER: 60/118,624
/ PRIOR FILING DATE: 1999-02-04
/ NUMBER OF SEQ ID NOS: 85
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 27
/ LENGTH: 1907
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-300-958A-27

Alignment Scores:
Pred. No.: 2.1e-05 Length: 1907
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-300-958A-27 (1-1907)

QY 1 LysAenSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16
Db 1161 AAAAAGCTCAAGCGCTGGAAGAGAGAGGTTCTCCAGATCGAAG 1208

RESULT 4
US-09-570-593-4
/ Sequence 4, Application US/09570593
/ Patent No. 6566063
/ GENERAL INFORMATION:
/ APPLICANT: Kaufmann, Joerg
/ APPLICANT: Xin, Hong
/ APPLICANT: Hartowe, Greg
/ TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
/ FILE REFERENCE: 2300-1556
/ CURRENT APPLICATION NUMBER: US/09/570,593
/ CURRENT FILING DATE: 2000-05-12
/ PRIOR APPLICATION NUMBER: 60/134,112
/ PRIOR FILING DATE: 1999-05-14
/ NUMBER OF SEQ ID NOS: 13
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 1907
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (96)...(1211)
/ OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
/ OTHER INFORMATION: protein.
US-09-570-593-4

Alignment Scores:
Pred. No.: 2.1e-05 Length: 1907
Score: 84.00 Matches: 16
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Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-570-593-4 (1-1907)

QY 1 LysAsnSerSerGlyTrypYsgIugIuValLeuGlnSerArgAsn 16  
DB 1161 AAAAAGCTCAAGCGGCTGGAAGAGAGAGAGGTTCTCCAGATCGGAAAC 1208

RESULT 5  
US-08-746-789A-1

Sequence 1, Application US/08746789A

Patent No. 5789200

GENERAL INFORMATION:

APPLICANT: Iemai Kola, Martin J. Tyms, Christine Debouck

TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation

STREET: 709 Swedeland Road, P.O. Box 1539

CITY: King of Prussia

STATE: PA

COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

COMPUTER: IBM 486

OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

SOFTWARE: MICROSOFT WORD

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/746,789A

FILING DATE: No. 5789200ember 15, 1996

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: William T. Han

REGISTRATION NUMBER: 34,344

REFERENCE/DOCKET NUMBER: ATG 50024

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610 270 5219

TELEFAX: 610 270 4026

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1920

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

ANTI-SENSE: No

US-08-746-789A-1

Alignment Scores:

Pred. No.: 2,12e-05 Length: 1920

Score: 84.00 Matches: 16

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 1 Gaps: 0

US-08-978-217-12 (1-16) x US-08-746-789A-1 (1-1920)

QY 1 LysAsnSerSerGlyTrypYsgIugIuValLeuGlnSerArgAsn 16

DB 1180 AAAAAGCTCAAGCGGCTGGAAGAGAGAGGTTCTCCAGATCGGAAAC 1227

APPLICANT: Furness, Michael  
APPLICANT: Buchbinder, Jenny  
TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS

FILE REFERENCE: PA-0041 US

CURRENT APPLICATION NUMBER: US/09/976,594

PRIOR FILING DATE: 2001-10-12

PRIOR APPLICATION NUMBER: 60/240,409

PRIOR FILING DATE: 2000-10-12

NUMBER OF SEQ ID NOS: 1143

SOFTWARE: PERL Program

SEQ ID NO 959

LENGTH: 2719

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. 6673549 337058.1

LOCATION: 479

OTHER INFORMATION: a, t, c, g, or other

US-09-976-594-959

Alignment Scores:

Pred. No.: 101 Length: 2719

Score: 47.00 Matches: 9

Percent Similarity: 62.50% Conservative: 1

Best Local Similarity: 56.25% Mismatches: 6

Query Match: 55.95% Indels: 0

DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-976-594-959 (1-2719)

QY 1 LysAsnSerSerGlyTrypYsgIugIuValLeuGlnSerArgAsn 16

DB 1073 AAAAATGGGGGGGGGTGGAAGAGCTGATGTAATGCTTATAT 120

RESULT 7  
US-09-822-871-3

Sequence 3, Application US/09822871

Patent No. 6723547

GENERAL INFORMATION:

APPLICANT: WEBSTER, Marion et al

TITLE OF INVENTION: ISOLATED HUMAN PHOSPHATASE PROTEINS,

TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHATASE PROTEINS,

TITLE OF INVENTION: AND USES THEREOF

FILE REFERENCE: CL001219

CURRENT APPLICATION NUMBER: US/09/822,871

CURRENT FILING DATE: 2002-12-02

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 3

LENGTH: 254366

TYPE: DNA

ORGANISM: Human

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)...(254366)

OTHER INFORMATION: n = A,T,C or G

US-09-822-871-3

Alignment Scores:

Pred. No.: 2,21e+04 Length: 254366

Score: 47.00 Matches: 9

Percent Similarity: 100.00% Conservative: 1

Best Local Similarity: 90.00% Mismatches: 0

Query Match: 55.95% Indels: 0

DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-822-871-3 (1-254366)

QY 7 LysGluGluGluValLeuGlnSerArgAsn 16

DB 200592 AAAAGAGGAGATTTTACAAAGCAGAAC 200621

RESULT 8  
US-09-638-649-6/c  
; Sequence 6, Application US/09638649  
; Patent No. 6563015  
; GENERAL INFORMATION:  
; APPLICANT: Stern, David M.  
; APPLICANT: Schmidt, Ann Marie  
; APPLICANT: Van, Shi Du  
; TITLE OF INVENTION: TRANSGENIC MICE OVER-EXPRESSING RECEPTOR FOR ADVANCED  
; TITLE OF INVENTION: GLYCATON ENDPRODUCT (PAGE) AND MUTANT APP IN BRAIN AND  
; FILE REFERENCE: 05/75/62175  
; CURRENT APPLICATION NUMBER: US/09/638,649  
; CURRENT FILING DATE: 2000-08-14  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1348  
; TYPE: DNA  
; ORGANISM: Murine  
US-09-638-649-6

Alignment Scores:  
Pred. No.: 66 Length: 1348  
Score: 46.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 54.76% Indels: 0  
Gaps: 0

US-08-978-217-12 (1-16) x US-09-638-649-6 (1-1348)

Qy 2 AaSeSerGlyTrpLygLuGlu 9  
Db 275 AATTCAGTGGCTGAGAGAGAG 252

RESULT 9  
US-09-554-337-4  
; Sequence 4, Application US/09554337  
; Patent No. 6475780  
; GENERAL INFORMATION:  
; APPLICANT: Partridge, Mark  
; APPLICANT: Li, Xiaomao  
; APPLICANT: Klein, Michael H.  
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES  
; FILE REFERENCE: 1038-1042 MIS  
; CURRENT APPLICATION NUMBER: US/09/554,337  
; CURRENT FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/065,791  
; PRIOR FILING DATE: 1997-11-14  
; PRIOR APPLICATION NUMBER: PCT/CA98/01064  
; PRIOR FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 8100  
; TYPE: DNA  
; ORGANISM: respiratory syncytial virus  
US-09-554-337-4

Alignment Scores:  
Pred. No.: 555 Length: 8100  
Score: 46.00 Matches: 7  
Percent Similarity: 85.71% Conservative: 5  
Best Local Similarity: 50.00% Mismatches: 2  
Query Match: 54.76% Indels: 0  
Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-4 (1-8100)

Qy 3 SerSerGlyTrpLygLuGluGluValLeuGlnSerArgAsn 16  
Db 3 SerSerGlyTrpLygLuGluGluValLeuGlnSerArgAsn 16

Db 397 GCCACAACTGGGCGGAGGAGGAGGTTCACAGCCGAGGAAAC 438

RESULT 10  
US-07-920-281C-1  
; Sequence 1, Application US/07920281C  
; Patent No. 5739026  
; GENERAL INFORMATION:  
; APPLICANT: Garoff, Henrik  
; APPLICANT: Liljestrom, Peter  
; TITLE OF INVENTION: DNA Expression Systems Based on  
; TITLE OF INVENTION: Alphaviruses  
; NUMBER OF SEQUENCES: 27  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Birch, Stewart, Kolasch & Birch  
; STREET: P.O. Box 747  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: USA  
; ZIP: 22040-0747  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/920,281C  
; FILING DATE: 13-AUG-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 828-103P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-241-1300  
; TELEFAX: 703-241-2848  
; TELEX: 248345  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11517 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULAR TYPE: RNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Semliki Forest Virus  
; FEATURE:  
; NAME/KEY: -  
; LOCATION: 1..11517  
; OTHER INFORMATION: /label= genome  
; OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide  
; OTHER INFORMATION: sequence, presented as a cloned DNA sequence; see  
; OTHER INFORMATION: Figure 5."  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 87..7379  
; OTHER INFORMATION: /product= "SFV polypeptide"  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 7421..11179  
; OTHER INFORMATION: /product= "SFV polypeptide"  
US-07-920-281C-1

Alignment Scores:  
Pred. No.: 843 Length: 11517  
Score: 46.00 Matches: 7  
Percent Similarity: 85.71% Conservative: 5  
Best Local Similarity: 50.00% Mismatches: 2  
Query Match: 54.76% Indels: 0  
Gaps: 0

US-08-978-217-12 (1-16) x US-07-920-281C-1 (1-11517)

Qy 3 SerSerGlyTryphtsgluGlutValleuGlnSerArgAsn 16  
Percent Similarity: 85.71%  
Best Local Similarity: 50.00%  
Query Match: 54.76%  
DB: 3  
Gaps: 0

RESULT 11  
US-08-466-277-1

Sequence 1, Application US/08466277  
Patent No. 6190666

GENERAL INFORMATION:

APPLICANT: Garoff, Henrik

INVENTOR: Liljestrom, Peter

TITLE OF INVENTION: DNA Expression Systems Based on  
Alphaviruses

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Birch, Stewart, Kolaach & Birch

STREET: P.O. Box 747

CITY: Falls Church

STATE: Virginia

COUNTRY: USA

ZIP: 22040-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/466,277

FILING DATE: 06-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/920,281

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M.

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 828-103P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-241-1300

TELEFAX: 703-241-2848

TELEX: 248345

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 11517 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: RNA (genomic)

HYPOTHEICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Semliki Forest Virus

FEATURE:

NAME/KEY: -

LOCATION: 1..11517

OTHER INFORMATION: /label= genome

/note= "Semliki Forest Virus complete nucleotide

sequence, presented as a cloned DNA sequence; see

Figure 5."

FEATURE:

NAME/KEY: CDS

LOCATION: 87..7379

OTHER INFORMATION: /product= "SFV polypeptide"

FEATURE:

NAME/KEY: CDS

LOCATION: 7421..11179

OTHER INFORMATION: /product= "SFV polypeptide"

US-08-978-217-12 (1-16) x US-08-466-277-1 (1-11517)

Qy 3 SerSerGlyTryphtsgluGlutValleuGlnSerArgAsn 16  
Percent Similarity: 85.71%  
Best Local Similarity: 50.00%  
Query Match: 54.76%  
DB: 3  
Gaps: 0

RESULT 12  
US-09-688-842-1

Sequence 1, Application US/09688842  
Patent No. 6770283

GENERAL INFORMATION:

APPLICANT: Garoff, Henrik

INVENTOR: Liljestrom, Peter

TITLE OF INVENTION: DNA Expression Systems Based on  
Alphaviruses

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Birch, Stewart, Kolaach & Birch

STREET: P.O. Box 747

CITY: Falls Church

STATE: Virginia

COUNTRY: USA

ZIP: 22040-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/688,842

FILING DATE: 17-Oct-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/466,277

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M.

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 828-103P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-241-1300

TELEFAX: 703-241-2848

TELEX: 248345

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 11517 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: RNA (genomic)

HYPOTHEICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Semliki Forest Virus

FEATURE:

NAME/KEY: -

LOCATION: 1..11517

OTHER INFORMATION: /label= genome

/note= "Semliki Forest Virus complete nucleotide

sequence, presented as a cloned DNA sequence; see

Figure 5."

FEATURE:

NAME/KEY: CDS

LOCATION: 87..7379

OTHER INFORMATION: /product= "SFV polypeptide"

FEATURE:

NAME/KEY: CDS

LOCATION: 7421..11179

OTHER INFORMATION: /product= "SFV polypeptide"

FEATURE:

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; LOCATION: 7421..11179
; OTHER INFORMATION: /product= "SFV polyprotein"
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-688-842-1

Alignment Scores:
Pred. No.: 843 Length: 11517
Score: 46.00 Matches: 7
Percent Similarity: 85.71% Conservative: 5
Best Local Similarity: 50.00% Mismatches: 2
Query Match: 54.76% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-688-842-1 (1-11517)

QY 3 SerSerGlyTyrPlysgluGluValLeuGlnSerArgAsn 16
Db 675 GCCCAAACTGGCGCCGACGACGAGTGTTCACAGCCAGAAC 716

RESULT 13
US-09-554-337-1
; Sequence 1, Application US/09554337
; Patent No. 6475780
; GENERAL INFORMATION:
; APPLICANT: Parrington, Mark
; APPLICANT: Li, Xiaomao
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
; FILE REFERENCE: 1038-1042 MIS
; CURRENT APPLICATION NUMBER: US/09/554,337
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/065,791
; PRIOR FILING DATE: 1997-11-14
; PRIOR APPLICATION NUMBER: PCT/CA98/01064
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 15538
; TYPE: DNA
; ORGANISM: respiratory syncytial virus
US-09-554-337-1

Alignment Scores:
Pred. No.: 1,2e+03 Length: 15538
Score: 46.00 Matches: 7
Percent Similarity: 85.71% Conservative: 5
Best Local Similarity: 50.00% Mismatches: 2
Query Match: 54.76% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-1 (1-15538)

QY 3 SerSerGlyTyrPlysgluGluValLeuGlnSerArgAsn 16
Db 3221 GCCCAAACTGGCGCCGACGACGAGTGTTCACAGCCAGAAC 3262

RESULT 14
US-09-464-535-25/C
; Sequence 25, Application US/09464535
; Patent No. 6545200
; GENERAL INFORMATION:
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Sakai, Hajime
; APPLICANT: McGonigle, Brian
; APPLICANT: Rafalecki, J. Antoni
; TITLE OF INVENTION: STEROL BIOSYNTHETIC ENZYMES
; FILE REFERENCE: B81306 US NA
; CURRENT APPLICATION NUMBER: US/09/464,535
; CURRENT FILING DATE: 1999-12-15
; EARLIER APPLICATION NUMBER: 60/112,555
; EARLIER FILING DATE: 1998-12-16
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; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 25
; LENGTH: 993
; TYPE: DNA
; ORGANISM: Glycine max
US-09-464-535-25

Alignment Scores:
Pred. No.: 68.7 Length: 993
Score: 45.00 Matches: 9
Percent Similarity: 78.57% Conservative: 2
Best Local Similarity: 64.29% Mismatches: 3
Query Match: 53.57% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-464-535-25 (1-993)

QY 2 AsnSerSerGlyTyrPlysgluGluValLeuGlnSerArg 15
Db 661 TCACGACGCGGATGGCAATGATCAAGGATATTCACATCCAG 620

RESULT 15
US-09-299-141-5/C
; Sequence 5, Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, STRONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; CURRENT FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: 60/083,025
; EARLIER FILING DATE: 1998-04-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 7492
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: p43C-AT-IN
US-09-299-141-5

Alignment Scores:
Pred. No.: 758 Length: 7492
Score: 45.00 Matches: 10
Percent Similarity: 61.90% Conservative: 3
Best Local Similarity: 47.62% Mismatches: 2
Query Match: 53.57% Indels: 6
DB: 4 Gaps: 1

US-08-978-217-12 (1-16) x US-09-299-141-5 (1-7492)

QY 2 AsnSerSerGlyTyrPlysgluGluValLeuGlnSerArg 15
Db 813 AACAGCTCAGGCTGTGTCAGCAACTTACCTTTAAAGAAAGATGTAATTCACAGACAAA 754

QY 16 Asn 16
Db 753 AAC 751

Search completed: November 15, 2004, 23:13:46
Job time : 27.9406 secs
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GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 21:57:02 : Search time 141.363 Seconds  
(without alignments)  
3209.338 Million cell updates/sec

Title: US-08-978-217-7

Perfect score: 445  
Sequence: 1 NCALBEHLRVFGLPGLQDLHA.....ELUDGQASPHYHSCGANG 84

Scoring table:  
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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delcxt 7.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications NA -QFMT=fastap -SUFFIX=xmpb -MINMATCH=0.1  
-LOOPEXT=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blonsum62  
-TRANS=human40.cdt -LIST=45 -DOCALLIGN=200 -THR SCORE=0.001 -THR MAX=100  
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-MAXLEN=200000000 -USER=US08978217@cgn\_1\_1189\_@runat\_15112004\_103133\_12813  
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications NA: \*  
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11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq: \*  
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14: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq: \*  
15: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq: \*  
16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq: \*  
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19: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq: \*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	445	100.0	563	9	US-09-922-217-944
C 2	445	100.0	563	9	US-09-833-263-944
C 3	445	100.0	563	13	US-10-025-380-944
C 4	445	100.0	626	9	US-09-922-217-853
C 5	445	100.0	626	9	US-09-833-263-853
C 6	445	100.0	626	13	US-10-025-380-853
C 7	445	100.0	1307	14	US-10-097-340-74
C 8	445	100.0	1307	15	US-10-291-808-27
C 9	445	100.0	1315	9	US-09-964-824A-101
C 10	445	100.0	1315	9	US-09-964-824A-563
C 11	445	100.0	1315	9	US-09-880-107-3420
C 12	445	100.0	1315	9	US-09-967-768A-192
C 13	445	100.0	1317	3	US-09-922-217-1105
C 14	445	100.0	1317	13	US-10-025-380-1105
C 15	445	100.0	1356	16	US-10-264-049-756
C 16	445	100.0	1356	9	US-09-925-301-207
C 17	445	100.0	2269	15	US-10-131-410-64
C 18	439	98.7	355	9	US-09-867-701-4818
C 19	305	68.5	1746	9	US-09-998-598-1740
C 20	111	24.9	437	9	US-09-998-598-2216
C 21	84	18.9	641	13	US-10-027-632-199194
C 22	84	18.9	641	13	US-10-027-632-199195
C 23	84	18.9	641	13	US-10-027-632-199196
C 24	84	18.9	641	13	US-10-027-632-199197
C 25	84	18.9	641	13	US-10-027-632-199198
C 26	84	18.9	641	15	US-10-027-632-199194
C 27	84	18.9	641	15	US-10-027-632-199195
C 28	84	18.9	641	15	US-10-027-632-199196
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C 30	84	18.9	641	15	US-10-027-632-199198
C 31	73.5	16.5	624	16	US-10-282-122A-7521
C 32	73.5	16.5	1341	15	US-10-156-761-5009
C 33	73.5	16.5	9025608	15	US-10-156-761-1
C 34	73	16.4	1005	15	US-10-369-493-40562
C 35	73	16.4	2746	17	US-10-433-171-7
C 36	72.5	16.3	163	17	US-10-433-171-7
C 37	72.5	16.3	1697	17	US-10-437-963-92512
C 38	72.5	16.3	2770	16	US-10-287-226-329
C 39	72.5	16.3	51705	16	US-10-052-482-229
C 40	72	16.2	353	9	US-09-854-133-195
C 41	72	16.2	398	9	US-09-854-133-697
C 42	72	16.2	398	15	US-10-144-649A-697
C 43	72	16.2	407	10	US-09-918-995-36824
C 44	72	16.2	410	10	US-09-918-995-16413
C 45	72	16.2	521	9	US-09-884-441-139

#### ALIGNMENTS

RESULT 1  
US-09-922-217-944/c  
Sequence 944, Application US/09922217  
Patent No. US2002007641A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeline Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Yang, Yugu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217

;; CURRENT FILING DATE: 2001-08-03  
;; NUMBER OF SEQ ID NOS: 1124  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 944  
;; LENGTH: 563  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-922-217-944

## Alignment Scores:

Pred. No.:	1,72e-55	Length:	563
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-7 (1-84) x US-09-922-217-944 (1-563)

QY 1 AenCYaAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHIsAla 20  
Db 472 AATTGTCCTTGAGAGAGCTGCTGCTGCTTGGGCTCTGGGGAGCAACTCCATGCC 413  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeuLeu 40  
Db 412 CAGCTCGAGAGACCTCCTCAGCTCTTGATGAGCTCAGTTGATCATTGAGCTGCTG 353  
QY 41 GlnLeuAAspGlyMetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
Db 352 GAGAAAGATGAGATGAGCTGCTGCTGAGAGAGCCCTTAAACCAAGAGCCCTTGAACAGAGGAGC 233  
QY 61 ProPheAlaGlnGluLeuLeuAAspAAspGlyGlnGlnAlaLeuSerProGlyTrpHisProGlySer 80  
Db 292 CCTTGGCCAGAGAGCTGCTGCTGAGAGAGCTGAGAGAGCCCTTAAACCAAGAGCCCTTGAACAGAGGAGC 233  
QY 81 CyGgLYAlaGly 84  
Db 232 TGTGGCCGAGGA 221

## RESULT 2

US-09-833-263-944/C  
; Sequence 944, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skolky, John A.  
; APPLICANT: Meagher, Madeline J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 944  
; LENGTH: 563  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-833-263-944

## Alignment Scores:

Pred. No.:	1,72e-55	Length:	563
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-7 (1-84) x US-09-833-263-944 (1-563)

QY 1 AenCYaAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHIsAla 20  
Db 472 AATTGTCCTTGAGAGAGCTGCTGCTGCTTGGGCTCTGGGGAGCAACTCCATGCC 413  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeuLeu 40  
Db 412 CAGCTCGAGAGACCTCCTCAGCTCTTGATGAGCTCAGTTGATCATTGAGCTGCTG 353  
QY 41 GlnLeuAAspGlyMetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
Db 352 GAGAAAGATGAGATGAGCTGCTGCTGAGAGAGCCCTTAAACCAAGAGCCCTTGAACAGAGGAGC 233  
QY 61 ProPheAlaGlnGluLeuLeuAAspAAspGlyGlnGlnAlaLeuSerProGlyTrpHisProGlySer 80  
Db 292 CCTTGGCCAGAGAGCTGCTGCTGAGAGAGCTGAGAGAGCCCTTAAACCAAGAGCCCTTGAACAGAGGAGC 233  
QY 81 CyGgLYAlaGly 84  
Db 232 TGTGGCCGAGGA 221

## RESULT 3

US-10-025-380-944/C  
; Sequence 944, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeline Joy  
; APPLICANT: Skolk, John A.  
; APPLICANT: Wang, Tongcong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skelky, Yaair A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Derrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 944  
; LENGTH: 563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-944

## Alignment Scores:

Pred. No.:	1,72e-55	Length:	563
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	13	Gaps:	0

US-08-978-217-7 (1-84) x US-10-025-380-944 (1-563)

QY 1 AenCYaAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHIsAla 20  
Db 472 AATTGTCCTTGAGAGAGCTGCTGCTGCTTGGGCTCTGGGGAGCAACTCCATGCC 413  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeuLeu 40  
Db 412 CAGCTCGAGAGACCTCCTCAGCTCTTGATGAGCTCAGTTGATCATTGAGCTGCTG 353  
QY 41 GlnLeuAAspGlyMetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
Db 352 GAGAAAGATGAGATGAGCTGCTGCTGAGAGAGCCCTTAAACCAAGAGCCCTTGAACAGAGGAGC 293

QY 61 ProPha1aGlnGluLeuLeuAAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 292 CCCTTGCCCGAGAGCTGCTGAGACGACGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 233  
QY 81 CyeglyAlaGly 84  
Db 232 TGTGGCGCAGGA 221

## RESULT 4

US-09-922-217-853/c  
; Sequence 853, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tonglong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-853

Alignment Scores:  
Pred. No.: 1,97e-55 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-853 (1-626)

QY 1 AaCYaAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
Db 471 AATTGTGCTTGAAGAGCTGCTGCTGCTTGTGGGCTTGTGGGAGCCAACTCCATGCC 412  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGlnLeuLeu 40  
Db 411 CAGCTGGAGACCTCACTTCACTTCTTGAATGAGCTCACTTGATCATTTAGACTGCTG 352  
QY 41 GlnLyAspGlyMetAlaPheGlnGlnAlaLeuAAspProGlyProPheAspGlnGlySer 60  
Db 351 GAGAGAGATGGATGGCTTCCAGAGAGCCCTTGAACCCAGAGCCCTTGAACAGGCGAGC 292  
QY 61 ProPha1aGlnGluLeuLeuAAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 291 CCCTTGGCCAGAGAGCTGCTGAGACGAGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232  
QY 81 CyeglyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

RESULT 5  
US-09-833-263-853/c  
; Sequence 853, Application US/09833263  
; Patent No. US20020110547A1

; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-833-263-853

Alignment Scores:  
Pred. No.: 1,97e-55 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-833-263-853 (1-626)

QY 1 AaCYaAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
Db 471 AATTGTGCTTGAAGAGCTGCTGCTGCTTGTGGGCTTGTGGGAGCCAACTCCATGCC 412  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGlnLeuLeu 40  
Db 411 CAGCTGGAGACCTCACTTCACTTCTTGAATGAGCTCACTTGATCATTTAGACTGCTG 352  
QY 41 GlnLyAspGlyMetAlaPheGlnGlnAlaLeuAAspProGlyProPheAspGlnGlySer 60  
Db 351 GAGAGAGATGGATGGCTTCCAGAGAGCCCTTGAACCCAGAGCCCTTGAACAGGCGAGC 292  
QY 61 ProPha1aGlnGluLeuLeuAAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 291 CCCTTGGCCAGAGAGCTGCTGAGACGAGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232  
QY 81 CyeglyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

## RESULT 6

US-10-025-380-853/c  
; Sequence 853, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tonglong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380

CURRENT FILING DATE: 2001-12-19			
NUMBER OF SEQ ID NOS: 1129			
SOFTWARE: FastSeq for Windows Version 4.0			
SEQ ID NO 853			
LENGTH: 626			
TYPE: DNA			
ORGANISM: Homo sapiens			
US-10-025-380-853			
Alignment Scores:			
Pred. No.:	1,978-55	Length:	626
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	13	Gaps:	0
US-08-978-217-7 (1-84) x US-10-025-380-853 (1-626)			
Qy	1	Aa	CysAlaLeuGlnGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla20
Db	471	AATGTGCGCCCTTGAGAGAGCTGCCTCGCTTGAGGCGCTCTGGGGACCAACTCCATGCGC	412
Qy	21	GlnLeuAlaGAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu	40
Db	411	CAGCTGCAGAGACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCTTGAAGCTGCTG	352
Qy	41	GluLysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer	60
Db	351	GAGAAAGATGGATGATGCGCTTCCAGAGAGGCCCTTAGACCCAGGGCCCTTTGACCAAGGGCAGC	292
Qy	61	ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer	80
Db	291	CCCTTTGGCCCAAGAGACTGCTGACGACGAGCTCAGCAAGCCAGCCCTTACCAACCCGCGCAGC	232
Qy	81	CysGlyAlaGly	84
Db	231	TGTGGCGCAGGA	220
RESULT 7			
US-10-097-340-74			
Sequence 74, Application US/10097340			
Publication No. US20030087250A1			
GENERAL INFORMATION:			
APPLICANT: John MONAHAN			
APPLICANT: Manjula GANNAVAPURU			
APPLICANT: Sebastian HOERSCH			
APPLICANT: Shubhangi KAMATKAR			
APPLICANT: Steve G. KOVATS			
APPLICANT: Rachel E. MEYERS			
APPLICANT: Michael MORRISSEY			
APPLICANT: Peter OLANDT			
APPLICANT: Ami SEN			
APPLICANT: Peter VEIBY			
APPLICANT: Gordon B. MILLS			
APPLICANT: Robert C. BAST, Jr.			
APPLICANT: Karen LU			
APPLICANT: Rosemarie SCHWANDT			
APPLICANT: Xumei ZHAO			
APPLICANT: Karen GIATT			
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification			
FILE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer			
FILE REFERENCE: MRI-030			
CURRENT APPLICATION NUMBER: US/10/097,340			
CURRENT FILING DATE: 2002-03-14			
PRIOR APPLICATION NUMBER: 60/276,025			
PRIOR FILING DATE: 2001-03-14			
PRIOR APPLICATION NUMBER: 60/325,149			
PRIOR FILING DATE: 2001-09-26			
PRIOR APPLICATION NUMBER: 60/276,026			
PRIOR FILING DATE: 2001-03-14			
PRIOR APPLICATION NUMBER: 60/324,967			
PRIOR FILING DATE: 2001/09/26			

```

      PRIOR APPLICATION NUMBER: 60/311,732
      PRIOR FILING DATE: 2001-08-10
      PRIOR APPLICATION NUMBER: 60/325,102
      PRIOR FILING DATE: 2001-09-26
      PRIOR APPLICATION NUMBER: 60/323,580
      PRIOR FILING DATE: 2001-09-19
      NUMBER OF SEQ ID NOS: 363
      SOFTWARE: FastSeq for Windows Version 4.0
      SEQ ID NO 74
      LENGTH: 1907
      TYPE: DNA
      ORGANISM: Homo sapiens
US-10-097-340-74

Alignment Scores:
Pred. No.:
Score: 8.11e-55      Length: 1907
Percent Similarity: 445.00      Matches: 84
Best Local Similarity: 100.00%      Conservative: 0
Query Match: 100.00%      Mismatches: 0
DB: 14      Indels: 0
      Gaps: 0

US-08-978-217-7 (1-84) x US-10-097-340-74 (1-1907)
QY      1 AsnCysAlaLeuGlnGluLeuAryLeuValPheGlyProLeuGlyAspGlnLeuHAla 20
Db      405 AATTGTGCGCTTTAGAGAGAGCTGGCTCGGTGCTTTGGGCTCTGGGGGAGCAACTCCATGCC 46
QY      21 GlnLeuAryAspLeuTherSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeu 40
Db      465 CACCTGGGAGACCTCACTTCCTCCAGCTCTTCTGATGAGCTCAATTGGATCATTTGAGCTGCTG 524
QY      41 GlnLysAspGlyWcerAlaPheGlnGlnLysAlaLeuAspProGlyProPheAspGlnGlySer 60
Db      525 GAGAGAGATGGCATGGCTCTTCCAGAGAGGCGCTTAGACCCAGGGCCCTTTGACCAAGGCAAGC 58
QY      61 ProPheAlaGlnGluLeuLeuAspAspArgGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db      585 CCTTTGGCCAGAGAGCTGCTGGACGACGGGTGACGAAGCCAGCCCTTACCAACCCCGGAGC 644
QY      81 CysGlyAlaGly 84
Db      645 TGTGGCGCAGGA 656

RESULT 8
US-10-291-808-27
; Sequence 27, Application US/10291808
; Publication No. US20030224382A1
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Trenkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/10/291,808
; CURRENT FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US/09/300,958
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-291-808-27

```

Alignment Scores:  
Pred. No.: 8.11e-55 Length: 1907  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 15 Gaps: 0

US-08-978-217-7 (1-84) x US-10-291-808-27 (1-1907)

QY 1 AsnCysAlaLeuGluGluLeuAlaGlyValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 405 AATTGGCCCTTAAGAGAGCTGCGCTGCTTGGGCGCTTGGGGAGCAACCTCCATGCC 464  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGluLeu 40  
DB 465 CAGCTCGAGACTCCTCCCTCCAGCTCTTGTGATGAGCTCACTTGATCATTGAGCTGCTG 524  
QY 41 GluLeuAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60  
DB 525 GAGAAAGATGGCATGGCTCTCCAGAGGCGCTTACACCCAGGCGCTTGAACAGGGCAGC 584  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
DB 585 CCCTTGGCCAGAGCTGCTGAGACGAGCGGTCAAGCAAGCCCTTACCAACCCCGGCGAGC 644  
QY 81 CysGlyAlaGly 84  
DB 645 TGTGGCGCAGGA 656

## RESULT 9

US-09-964-824A-101  
Sequence 101, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horriagan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964, 824A  
PRIOR FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236, 033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 028  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 101  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-964-824A-101

Alignment Scores:  
Pred. No.: 8.16e-55 Length: 1915  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-964-824A-101 (1-1915)

QY 1 AsnCysAlaLeuGluGluLeuAlaGlyValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 429 AATTGGCCCTTAAGAGAGCTGCGCTGCTTGGGCGCTTGGGGAGCAACCTCCATGCC 488  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGluLeu 40  
DB 489 CAGCTCGAGACTCCTCCAGCTCTTGTGATGAGCTCAGTTGATCATTGAGCTGCTG 548

QY 41 GluLeuAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60  
DB 549 GAGAAAGATGGCATGGCTCTCCAGAGGCGCTTACACCCAGGCGCTTGAACAGGGCAGC 608  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
DB 609 CCCTTGGCCAGAGCTGCTGAGACGAGTCAAGCAAGCCCTTACCAACCCCGGCGAGC 668

QY 81 CysGlyAlaGly 84  
DB 669 TGTGGCGCAGGA 680

## RESULT 10

US-09-964-824A-563  
Sequence 563, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horriagan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964, 824A  
PRIOR FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236, 033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 028  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 563  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-964-824A-563

Alignment Scores:  
Pred. No.: 8.16e-55 Length: 1915  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-964-824A-563 (1-1915)

QY 1 AsnCysAlaLeuGluGluLeuAlaGlyValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 429 AATTGGCCCTTAAGAGAGCTGCGCTGCTTGGGCGCTTGGGGAGCAACCTCCATGCC 488  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGluLeu 40  
DB 489 CAGCTCGAGACTCCTCCAGCTCTTGTGATGAGCTCAGTTGATCATTGAGCTGCTG 548  
QY 41 GluLeuAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60  
DB 549 GAGAAAGATGGCATGGCTCTCCAGAGGCGCTTACACCCAGGCGCTTGAACAGGGCAGC 608  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
DB 609 CCCTTGGCCAGAGCTGCTGAGACGAGTCAAGCAAGCCCTTACCAACCCCGGCGAGC 668  
QY 81 CysGlyAlaGly 84  
DB 669 TGTGGCGCAGGA 680

## RESULT 11

US-09-880-107-3420  
Sequence 3420, Application US/09880107  
Patent No. US20020142981A1  
GENERAL INFORMATION:  
APPLICANT: Horne, Darci T.

```
/ APPLICANT: Vockley, Joseph G.
/ APPLICANT: Scherf, Uwe
/ APPLICANT: Gene Logic, Inc.
/ TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
/ FILE REFERENCE: 44921-5028-WO
/ CURRENT APPLICATION NUMBER: US/09/880,107
/ PRIOR FILING DATE: 2001-06-14
/ PRIOR APPLICATION NUMBER: US 60/211,379
/ PRIOR FILING DATE: 2000-06-14
/ PRIOR APPLICATION NUMBER: US 60/237,054
/ NUMBER OF SEQ ID NOS: 3950
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 3420
/ LENGTH: 1915
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420
```

```
Alignment Scores:
Pred. No.: 8,16e-55 Length: 1915
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
```

US-08-978-217-7 (1-84) x US-09-880-107-3420 (1-1915)

```
QY 1 AsnCysAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 429 AATTGGCCCTTAGAGAGCTGGCTGTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 488
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeu 40
Db 489 CAGCTCGAGACCTCACTTCAGATGAGCTCATTGATGAGCTGATGATGAGCTGCTG 548
QY 41 GlnLeuAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 549 GAGAGGATGGCATGGCTTTCAGAGGCCCTTAGACCCAGAGCCCTTTGACAGGGCAGC 608
QY 61 ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrlHisProGlySer 80
Db 609 CCCTTGGCCAGAGGCTGCTGAGACGCTCAGACGAGCCCTTACCAACCCCGGCAGC 668
QY 81 CysGlyAlaGly 84
Db 669 TGTGGCGCAGGA 680
```

RESULT 12

```
US-09-967-768A-192
/ Sequence 192, Application US/09967768A
/ Patent No. US20020150877A1
/ GENERAL INFORMATION:
/ APPLICANT: Augustus, Meena
/ TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
/ TITLE OF INVENTION: Sets
/ FILE REFERENCE: 689290-72
/ CURRENT APPLICATION NUMBER: US/09/967,768A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: US/60/236,109
/ PRIOR FILING DATE: 2000-09-28
/ PRIOR APPLICATION NUMBER: US/60/236,034
/ PRIOR FILING DATE: 2000-09-28
/ PRIOR APPLICATION NUMBER: US/60/236,111
/ PRIOR FILING DATE: 2000-09-28
/ NUMBER OF SEQ ID NOS: 325
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 192
/ LENGTH: 1915
/ TYPE: DNA
```

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/ ORGANISM: Homo sapiens
US-09-967-768A-192
```

```
Alignment Scores:
Pred. No.: 8,16e-55 Length: 1915
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
```

US-08-978-217-7 (1-84) x US-09-967-768A-192 (1-1915)

```
QY 1 AsnCysAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 429 AATTGGCCCTTAGAGAGCTGGCTGTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 488
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeu 40
Db 489 CAGCTCGAGACCTCACTTCAGATGAGCTCATTGATGAGCTGATGATGAGCTGCTG 548
QY 41 GlnLeuAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 549 GAGAGGATGGCATGGCTTTCAGAGGCCCTTAGACCCAGAGCCCTTTGACAGGGCAGC 608
QY 61 ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrlHisProGlySer 80
Db 609 CCCTTGGCCAGAGGCTGCTGAGACGCTCAGACGAGCCCTTACCAACCCCGGCAGC 668
QY 81 CysGlyAlaGly 84
Db 669 TGTGGCGCAGGA 680
```

RESULT 13

```
US-09-922-217-1105
/ Sequence 1105, Application US/09922217
/ Patent No. US2002076414A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Secrist, Heather
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Meagher, Madeleine Joy
/ APPLICANT: Stolk, John A.
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Jiang, Yugu
/ APPLICANT: Smith, Carole Lynn
/ APPLICANT: King, Gordon E.
/ APPLICANT: Wang, Aijun
/ TITLE OF INVENTION: Clapper, Jonathan D.
/ TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
/ FILE REFERENCE: 210121, 471C13
/ CURRENT APPLICATION NUMBER: US/09/922,217
/ PRIOR FILING DATE: 2001-08-03
/ CURRENT FILING DATE: 2001-08-03
/ NUMBER OF SEQ ID NOS: 1124
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1105
/ LENGTH: 1917
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-922-217-1105
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Alignment Scores:
Pred. No.: 8,17e-55 Length: 1917
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
```

US-08-978-217-7 (1-84) x US-09-922-217-1105 (1-1917)

```
Qy 1 AsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 431 AATTGTCCTTGAAGAGCTGCGTCTTGCTTTGGGCTTGGGGGACCAACTCCATGCC 490
Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeuLeu 40
Db 491 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGATTCATTGAGCTGCTG 550
Qy 41 GlnLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 551 GAGAAGAGATGAGCTGCGCTTCCAGAGAGCCCTTACAGCCAGGCGCTTTGACCAAGGCGAGC 610
Qy 61 ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrtHisProGlySer 80
Db 611 CCTTTGCCCCAGAGAGCTGCTGAGACGAGCTCAGCAAGCCAGCCCTTACCAACCCCGGAGC 670
Qy 81 CygGlyAlaGly 84
Db 671 TGTGGCGCAGGA 682

RESULT 14
US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodee, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: Wang, Gordon E.
; APPLICANT: Wang, Aljun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Ranger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025.380
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1105

Alignment Scores:
Pred. No.: 8.17e-55 Length: 1917
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB: 13

US-08-978-217-7 (1-84) x US-10-025-380-1105 (1-1917)
Qy 1 AsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 431 AATTGTCCTTGAAGAGCTGCGTCTTGCTTTGGGCTTGGGGGACCAACTCCATGCC 490
Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeuLeu 40
Db 491 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGATTCATTGAGCTGCTG 550
Qy 41 GlnLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 551 GAGAAGAGATGAGCTGCGCTTCCAGAGAGCCCTTACAGCCAGGCGCTTTGACCAAGGCGAGC 610
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Db 551 GAGAAGAGATGAGCTGCTTCCAGAGAGCCCTTACAGCCAGGCGCTTTGACCAAGGCGAGC 610
Qy 61 ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrtHisProGlySer 80
Db 611 CCTTTGCCCCAGAGAGCTGCTGAGACGAGCTCAGCAAGCCAGCCCTTACCAACCCCGGAGC 670
Qy 81 CygGlyAlaGly 84
Db 671 TGTGGCGCAGGA 682

RESULT 15
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264.049
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Alignment Scores:
Pred. No.: 8.38e-55 Length: 1956
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB: 16

US-08-978-217-7 (1-84) x US-10-264-049-756 (1-1956)
Qy 1 AsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 470 AATTGTCCTTGAAGAGCTGCGTCTTGCTTTGGGCTTGGGGGACCAACTCCATGCC 529
Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeuLeu 40
Db 530 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGATTCATTGAGCTGCTG 589
Qy 41 GlnLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 590 GAGAAGAGATGAGCTGCGCTTCCAGAGAGCCCTTACAGCCAGGCGCTTTGACCAAGGCGAGC 649
Qy 61 ProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrtHisProGlySer 80
Db 650 CCTTTGCCCCAGAGAGCTGCTGAGACGAGCTCAGCAAGCCAGCCCTTACCAACCCCGGAGC 709
Qy 81 CygGlyAlaGly 84
Db 710 TGTGGCGCAGGA 721

Search completed: November 16, 2004, 03:18:57
Job time: 154.863 secs
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GenCore version 5.1.6  
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# OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 14:00:59 ; Search time 25.9382 Seconds  
(without alignments)  
2301.862 Million cell updates/sec

Title: US-08-978-217-7  
Perfect score: 445  
Sequence: 1 NCALBELRLRVFGLPGLDQLHA.....ELLDDGQASPYHPSGCGAG 84

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blonsum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALLCN=15  
-MODE=LOCAL -OUTFMT=p2n -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGIOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

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4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS.COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	445	100.0	1907	4	US-09-300-958A-27
2	445	100.0	1907	4	US-09-570-593-4
3	445	100.0	1920	1	US-08-746-789A-1
4	76.5	17.2	631	4	US-09-513-999C-10263
5	73.5	16.5	624	4	US-09-252-991A-13629
6	73.5	16.5	801	4	US-09-252-991A-13819
7	72	16.2	398	4	US-09-854-133-697
8	72	16.2	521	4	US-09-404-879A-139
9	72	16.2	521	4	US-09-338-933-139
10	72	16.2	521	4	US-09-215-681-139
11	72	16.2	521	4	US-09-216-003A-139
12	72	16.2	521	4	US-09-667-857-139

C 13	72	16.2	551	4	US-09-404-879A-92	Sequence 92, App1
C 14	72	16.2	551	4	US-09-338-933-92	Sequence 92, App1
C 15	72	16.2	551	4	US-09-215-681-92	Sequence 92, App1
C 16	72	16.2	551	4	US-09-216-003A-92	Sequence 92, App1
C 17	72	16.2	551	4	US-09-667-857-92	Sequence 92, App1
C 18	72	16.2	555	4	US-09-404-879A-107	Sequence 107, App
C 19	72	16.2	555	4	US-09-338-933-107	Sequence 107, App
C 20	72	16.2	555	4	US-09-215-681-107	Sequence 107, App
C 21	72	16.2	555	4	US-09-216-003A-107	Sequence 107, App
C 22	72	16.2	555	4	US-09-667-857-107	Sequence 107, App
C 23	72	16.2	2301	1	US-08-306-691B-23	Sequence 23, App1
C 24	72	16.2	2301	4	US-09-167-206-3	Sequence 3, App1
C 25	72	16.2	2301	5	PCT-US93-06251-78	Sequence 78, App1
C 26	71.5	16.1	3141	2	US-08-956-242-1	Sequence 1, App1
C 27	71.5	16.1	3141	3	US-09-351-215-1	Sequence 1, App1
C 28	70.5	15.8	4819	4	US-09-774-528-72	Sequence 72, App1
C 29	69.5	15.6	1412	4	US-09-799-451-426	Sequence 426, App
C 30	67.5	15.2	1011	4	US-09-852-991A-7550	Sequence 7550, Ap
C 31	67.5	15.2	1062	4	US-09-252-991A-7788	Sequence 7788, Ap
C 32	66.5	14.9	534	4	US-09-252-991A-12113	Sequence 12113, A
C 33	66.5	14.9	624	4	US-09-252-991A-12252	Sequence 12252, A
C 34	66.5	14.9	849	4	US-09-252-991A-11100	Sequence 11100, A
C 35	66.5	14.9	852	4	US-09-252-991A-10964	Sequence 10964, A
C 36	66.5	14.9	1473	4	US-09-518-914-7	Sequence 7, App1
C 37	66	14.8	1594	2	US-08-955-713-1	Sequence 1, App1
C 38	66	14.8	4154	1	US-08-131-365B-37	Sequence 37, App1
C 39	66	14.8	4154	2	US-08-668-123-37	Sequence 37, App1
C 40	66	14.8	6732	4	US-09-976-594-99	Sequence 99, App1
C 41	66	14.8	114793	4	US-10-148-806-3	Sequence 3, App1
C 42	65.5	14.7	444	4	US-09-252-991A-7864	Sequence 7864, Ap
C 43	65.5	14.7	1185	4	US-09-270-767-12737	Sequence 12737, A
C 44	65.5	14.7	11282	3	US-09-754-250-3	Sequence 3, App1
C 45	65	14.6	661	4	US-10-101-464A-202	Sequence 202, App

## ALIGNMENTS

RESULT 1  
US-09-300-958A-27  
; Sequence 27, Application US/09300958A  
; Patent No. 6495319  
; GENERAL INFORMATION:  
; APPLICANT: Mclelland, Michael  
; APPLICANT: Welsh, John  
; APPLICANT: Trenkle, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/09/300,958A  
; CURRENT FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-300-958A-27  
Alignment Scores:  
Pred. No.: 1,56e-53  
Score: 445.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 100.00%  
DB: 4  
Length: 1907  
Matches: 84  
Conservative: 0  
Mismatch: 0  
Indels: 0  
Gaps: 0  
US-08-978-217-7 (1-84) x US-09-300-958A-27 (1-1907)

QY 1 AencCyAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 405 AATTGGCCCTTGAGGAGCTGCGCTGTCTTTGGGCTCTGGGGAGCCAACTCCATGCC 464  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu 40  
DB 465 CAGCTCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAATTGATCATTTAGCTGCTG 524  
QY 41 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu 60  
DB 525 GAGAAGGATGAGATGGCTTCAGAGAGCCCTAGACCCAGGAGCCCTTGAACAGGAGC 584  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
DB 585 CCCTTGGCCAGAGAGCTGCTGAGAGAGCTGAGACCCAGCCCTTCAACCCCGGAGC 644  
QY 81 CyeglyAlaGly 84  
DB 645 TGTGGCCGACGGA 656

## RESULT 2

US-09-570-593-4  
Sequence 4, Application US/09570593  
Patent No. 6566063  
GENERAL INFORMATION:  
APPLICANT: Kaufmann, Joerg  
APPLICANT: Xin, Hong  
APPLICANT: Hartowe, Greg  
TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
TITLE OF INVENTION: CANCER  
FILE REFERENCE: 2300-1556  
CURRENT APPLICATION NUMBER: US/09/570, 593  
CURRENT FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: 60/134, 112  
PRIOR FILING DATE: 1999-05-14  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (96)...(1211)  
OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
OTHER INFORMATION: protein.  
US-09-570-593-4

## Alignment Scores:

Pred. No.:	1.58e-53	Length:	1907
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	4	Gaps:	0

US-08-978-217-7 (1-84) x US-09-570-593-4 (1-1907)

QY 1 AencCyAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 405 AATTGGCCCTTGAGGAGCTGCGCTGTCTTTGGGCTCTGGGGAGCCAACTCCATGCC 464  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu 40  
DB 465 CAGCTCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAATTGATCATTTAGCTGCTG 524  
QY 41 GlnLeuArgAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60  
DB 525 GAGAAGGATGAGATGGCTTCAGAGAGCCCTAGACCCAGGAGCCCTTGAACAGGAGC 584  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80

DB 585 CCCTTGGCCAGAGCTGCTGAGAGAGCTGAGACCCAGCCCTTACCAACCCCGGAGC 644  
QY 81 CyeglyAlaGly 84  
DB 645 TGTGGCCGACGGA 656

## RESULT 3

US-08-746-789A-1  
Sequence 1, Application US/08746789A  
Patent No. 5789200  
GENERAL INFORMATION:  
APPLICANT: Ismail Kola, Martin J. Tyms, Christine Debouck  
TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road, P.O. Box 1539  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
COMPUTER: IBM 486  
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
SOFTWARE: MICROSOFT WORD  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/746, 789A  
FILING DATE: No. 5789200ember 15, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: William T. Han  
REGISTRATION NUMBER: 34,344  
REFERENCE/DOCKET NUMBER: ATG 50024  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610 270 5219  
TELEFAX: 610 270 4026  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1920  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: NO  
US-08-746-789A-1

## Alignment Scores:

Pred. No.:	1.58e-53	Length:	1920
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	1	Gaps:	0

US-08-978-217-7 (1-84) x US-08-746-789A-1 (1-1920)

QY 1 AencCyAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
DB 424 AATTGGCCCTTGAGAGAGCTGCTGTCTTTGGGCTCTGGGGAGCCAACTCCATGCC 483  
QY 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeu 40  
DB 484 CAGCTCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAATTGATCATTTAGCTGCTG 543  
QY 41 GlnLeuArgAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60  
DB 544 GAGAAGGATGAGATGGCTTCAGAGAGCCCTAGACCCAGGAGCCCTTGAACAGGAGC 603  
QY 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80

Db 604 CCCTTGGCCAGAGCTGTGACGAGCTCAGCAAGCCCTTACCAACCCCGGAGC 663  
QY 81 CYSGLYALAGLY 84  
Db 664 TGTGGCGCAGGA 675

## RESULT 4

US-09-513-999C-10263/C  
; Sequence 10263, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 10263  
; LENGTH: 631  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 221  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 228  
; OTHER INFORMATION: y=c or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 541  
; OTHER INFORMATION: k=g or t  
US-09-513-999C-10263

## Alignment Scores:

Pred. No.:	0.127	Length:	631
Score:	76.50	Matches:	31
Percent Similarity:	39.42%	Conservative:	10
Best Local Similarity:	29.81%	Mismatches:	31
Query Match:	17.19%	Indels:	32
DB:	4	Gaps:	5

US-08-978-217-7 (1-84) x US-09-513-999C-10263 (1-631)

QY 6 GlnLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
Db 600 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATAACCTTACCTCTCTM 541  
QY 23 ArgAspLeuThrSerSerSerSerSerSerSerSerSerSerSerSerSerSerSer 42  
Db 540 ACTCTCATCTGACGAGCTTTTTCAGC-----TTCTTCAGCTTTTTCAGGAGC 496  
QY 43 AspGlyMetAla-----Phe 47  
Db 495 AGTGGCAGGCGCTCCCTGAGCAGGCTCCTTTTCAACAGCAGCTGATCAGGTTTC 436  
QY 48 GlnGlnAlaLeu-AspProGlyProPheAspGlnGlySerProPheAlaGlnGlnLeu 67  
Db 435 AAGGAGGCGACCTCAGCTCAGCTGCTT-----CCGGGCGCGCTTCTCCCTCAACTTCT 379  
QY 67 uAspAspGlyGlnGlnAlaSerProTyrHis-----ProGlySer 80  
Db 378 CGGTGAGGCGGCTCAGCTGCTCTCTGATCATCTGCTGCTGCTGCAAGAACCTGATC 319  
QY 80 rCYGGLYALA 83  
Db 80 rCYGGLYALA 83

Db 318 TTGCGCTTCA 309

## RESULT 5

US-09-252-991A-13629/C  
; Sequence 13629, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 13629  
; LENGTH: 624  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-13629

## Alignment Scores:

Pred. No.:	0.335	Length:	624
Score:	73.50	Matches:	26
Percent Similarity:	47.95%	Conservative:	9
Best Local Similarity:	35.62%	Mismatches:	19
Query Match:	16.52%	Indels:	19
DB:	4	Gaps:	4

US-08-978-217-7 (1-84) x US-09-252-991A-13629 (1-624)

QY 12 GlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSerSer 31  
Db 165 GGAGTACTTGGCCATGATGATCGCTCCCGCGGCTT----- 124  
QY 32 GlnLeuSerTrpIleIleGlnLeuGlnGlyuAspGlyMetAlaPheGlnGlnAlaLeu 51  
Db 123 CATCTGAGGCGCTTGTG---GTCAGCAGCATGAGCTCTGCGCTCCAGGCGGCTC 67  
QY 52 AspProGlyProPheAspGlnGlySerProPheAlaGlnGlnLeuAspAspGlyGln 71  
Db 66 GACCCAGGC-----GGCGGAGTGGAGACAGGAGAGATGTGCTCATCTCGGCGCA 16  
QY 72 GlnAlaSerProTyrHisProGlySerGlyAlaGly 84  
Db 15 CAT-----GGTGCAGGT 4

## RESULT 6

US-09-252-991A-13819  
; Sequence 13819, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 13819  
; LENGTH: 801  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-13819

## Alignment Scores:

Pred. No.: 0.476 Length: 801  
 Score: 73.50 Matches: 26  
 Percent Similarity: 47.95% Conservative: 9  
 Best Local Similarity: 35.62% Mismatches: 19  
 Query Match: 16.52% Indels: 19  
 DB: 4 Gaps: 4

US-08-978-217-7 (1-84) x US-09-252-991A-13819 (1-801)

Qy 12 G1yProlenGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSerAsp 31  
 Db 508 GGAGTACTTCCCGCATGTCATCCGCGCGCGCCCTT-----549  
 Qy 32 G1leuSerTripletleG1leuLeuG1lyAspG1lyMetAlaPheGlnG1lyAlaLeu 51  
 Db 550 CATCTCCAGCGCTTGTG---GTCCAGCAGATGACCTCTCGGCGCTCCAGCGCGCTC 606  
 Qy 52 AspProGlyProPheAspGlnGlySerProPheAlaGlnG1leuLeuAspAspGlyGln 71  
 Db 607 GACCCAGGC-----GGCGGAGTGGAACAGCAAGAAATTGTCGATCTCGGGCAA 657  
 Qy 72 GlnAlaSerProTyRHisProGlySerCyG1yAlaGly 84  
 Db 658 CAT-----GGTCAGGT 669

# RESULT 7

US-09-854-133-697/C  
 ; Sequence 697, Application US/09854133  
 ; Patent No. 6759508  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Mohamach, Rasoch  
 ; APPLICANT: Henderson, Robert A.  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Sericist, Heather  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR  
 ; TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER  
 ; FILE REFERENCE: 210121.475C10  
 ; CURRENT APPLICATION NUMBER: US/09/854.133  
 ; CURRENT FILING DATE: 2001-05-11  
 ; NUMBER OF SEQ. ID NOS: 735  
 ; SOFTWARE: FASTSEQ for Windows Version 3.0  
 ; SEQ ID NO 697  
 ; LENGTH: 398  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-854-133-697

# Alignment Scores:

Pred. No.: 0.291 Length: 398  
 Score: 72.00 Matches: 31  
 Percent Similarity: 39.81% Conservative: 10  
 Best Local Similarity: 30.10% Mismatches: 32  
 Query Match: 16.18% Indels: 31  
 DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-854-133-697 (1-398)

Qy 6 G1leuArgLeuValPhe-----G1yProlenGlyAspGlnLeuHisAlaGlnLeu 22  
 Db 341 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATACCTTACTCTCTC 282  
 Qy 23 ArgAspLeuThrSerSerSerSerAspG1leuSerTripletleG1leuLeuG1ly 42  
 Db 281 ACTCTCATCGACGACTTTTCAGC-----TTCTTCACGCTTTTGCAGGCG 237  
 Qy 43 AspGlyMetAla-----PheGlnG1lyAlaLeuAspProGly---54  
 Db 236 AGTGGCAGGCGCTCTGAGCAGGTCGACGCTTTCTTCAACGAGTGATCTGAGGTT 177  
 Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnG1leuLeu 67  
 Db 176 CAAGAGGCCACCTCAGCTCAGCTGTTCCTCCGCGCGCTTTCTCTCCT-CAACTTCTC 118

Qy 68 AspAspGlyGlnGlnAlaSerProTyRHis-----ProGlySer 80  
 Db 117 GCTGAGGCGGCTCAGCTGCTCTCTCTGATCATCTGCTGCTGACAGACTGATCT 58  
 Qy 81 CyG1yAla 83  
 Db 57 TGGGCTTCA 49

# RESULT 8

US-09-404-879A-139/C  
 ; Sequence 139, Application US/09404879A  
 ; Patent No. 6468546  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Algate, Paul A.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER  
 ; FILE REFERENCE: 210121.462C2  
 ; CURRENT APPLICATION NUMBER: US/09/404.879A  
 ; CURRENT FILING DATE: 1999-09-24  
 ; NUMBER OF SEQ. ID NOS: 393  
 ; SOFTWARE: FASTSEQ for Windows Version 3.0  
 ; SEQ ID NO 139  
 ; LENGTH: 521  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)...(521)  
 ; OTHER INFORMATION: n = A,T,C or G  
 ; US-09-404-879A-139

# Alignment Scores:

Pred. No.: 0.425 Length: 521  
 Score: 72.00 Matches: 31  
 Percent Similarity: 39.81% Conservative: 10  
 Best Local Similarity: 30.10% Mismatches: 32  
 Query Match: 16.18% Indels: 31  
 DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-404-879A-139 (1-521)

Qy 6 G1leuArgLeuValPhe-----G1yProlenGlyAspGlnLeuHisAlaGlnLeu 22  
 Db 333 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATACCTTACTCTCTC 274  
 Qy 23 ArgAspLeuThrSerSerSerSerAspG1leuSerTripletleG1leuLeuG1ly 42  
 Db 273 ACTCTCATCGACGACTTTTCAGC-----TTCTTCACGCTTTTGCAGGCG 229  
 Qy 43 AspGlyMetAla-----PheGlnG1lyAlaLeuAspProGly---54  
 Db 228 AGTGGCAGGCGCTCTGAGCAGGTCGACGCTTTCTTCAACAGCTGATCTTACGGTT 169  
 Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnG1leuLeu 67  
 Db 168 CAAGAGGCCACCTCAGCTCAGCTGTTCCTCCGCGCGCTTTCTCTCCT-CAACTTCTC 110  
 Qy 68 AspAspGlyGlnGlnAlaSerProTyRHis-----ProGlySer 80  
 Db 109 GCTGAGGCGGCTCAGCTGCTCTCTGATCATCTGCTGCTGCTGACAGACTGATCT 50  
 Qy 81 CyG1yAla 83  
 Db 49 TGGGCTTCA 41

# RESULT 9

US-09-338-933-139/C  
 ; Sequence 139, Application US/09338933  
 ; Patent No. 6488931  
 ; GENERAL INFORMATION:

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; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338,933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 139
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(521)
; OTHER INFORMATION: n = A,T,C or G
US-09-338-933-139

Alignment Scores:
Pred. No.: 0.425 Length: 521
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-139 (1-521)
Qy 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 333 GAGTTCATCTTTTCTTCATCTTTTAAAGCCGGTTTCAATAACCTTACCTCTCTC 274
Qy 23 ArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 273 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTGCAGGGC 229
Qy 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 228 AGTGGCCAGGCGCTCTGAGACGCGTCAGCTCTTCTTCAACAGCTGAGATCCAGCGTT 169
Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
Db 168 CAGAGAGCCACCTCAGCCTCAGCCTTCCCGGGCCCGCTTCTCTCCT-CAACTTCTC 110
Qy 68 AspAspGlyGlnGlnAlaSerProTyrHis-----ProGlySer 80
Db 109 GCTGAGGGCGCTCAGCTCGCTCTGTCATCATCTGCTGCTGCTGCGAGAACCTGATCT 50
Qy 81 CygGlyAla 83
Db 49 TGGCGTTCA 41

RESULT 10
US-09-215-681-139/c
; Sequence 139, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Frudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
; TITLE OF INVENTION: OF OVARIAN CANCER
; FILE REFERENCE: 210121.463
; CURRENT APPLICATION NUMBER: US/09/215,681A
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 139
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
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; NAME/KEY: misc_feature
; LOCATION: (1)...(521)
; OTHER INFORMATION: n = A,T,C or G
US-09-215-681-139

Alignment Scores:
Pred. No.: 0.425 Length: 521
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-215-681-139 (1-521)
Qy 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 333 GAGTTCATCTTTTCTTCATCTTTTAAAGCCGGTTTCAATAACCTTACCTCTCTC 274
Qy 23 ArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42
Db 273 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTGCAGGGC 229
Qy 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 228 AGTGGCCAGGCGCTCTGAGACGCGTCAGCTCTTCTTCAACAGCTGAGATCCAGCGTT 169
Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
Db 168 CAGAGAGCCACCTCAGCCTCAGCCTTCCCGGGCCCGCTTCTCTCCT-CAACTTCTC 110
Qy 68 AspAspGlyGlnGlnAlaSerProTyrHis-----ProGlySer 80
Db 109 GCTGAGGGCGCTCAGCTCGCTCTGTCATCATCTGCTGCTGCTGCGAGAACCTGATCT 50
Qy 81 CygGlyAla 83
Db 49 TGGCGTTCA 41

RESULT 11
US-09-216-003A-139/c
; Sequence 139, Application US/09216003A
; Patent No. 6670463
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Frudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF OVARIAN CANCER
; FILE REFERENCE: 210121.462
; CURRENT APPLICATION NUMBER: US/09/216,003A
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 139
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (517)
; OTHER INFORMATION: Where n is a, c, g or t
US-09-216-003A-139

Alignment Scores:
Pred. No.: 0.425 Length: 521
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-216-003A-139 (1-521)
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; Sequence 92, Application US/09338933  
; Patent No. 6488931  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer Lynn  
; APPLICANT: King, Gordon E.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF  
; FILE REFERENCE: 210121.462C1  
; CURRENT APPLICATION NUMBER: US/09/338,933  
; CURRENT FILING DATE: 1999-06-23  
; NUMBER OF SEQ ID NOS: 312  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 92  
; LENGTH: 551  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-338-933-92

Alignment Scores:  
Pred. No.: 0.46 Length: 551  
Score: 72.00 Matches: 31  
Percent Similarity: 39.81% Conservative: 10  
Best Local Similarity: 30.10% Mismatches: 32  
Query Match: 16.18% Indels: 31  
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)

QY 6 GlnLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
DB 354 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATTAACCTTACCTCTCTC 295  
QY 23 ArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeuGlnLeu 42  
DB 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTGCAGGGC 250  
QY 43 AspGlyMetAla-----PheGlnGlnAlaLeuAspProGly--- 54  
DB 249 AGTGGCCAGGCGCTCCTGAGCAGGTCACGCTCTTCTTCAACAGCTGGATCTACGGTT 190  
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnLeuLeu 67  
DB 189 CAAGAGGCCACCTCAGCTCAGCTGTCTCCGGCCCGCTTCTCCCT-CAACTTCTC 131  
QY 68 AspAspGlyGlnGlnAlaSerProTyTrHis-----ProGlySer 80  
DB 130 GCTGAGGCGCTCAGCTGCTCCTCTGCAATCCTGCTGCTGCTGCAAGAACTGGATCT 71  
QY 81 CysGlyAla 83  
DB 70 TGGCGTTCA 62

RESULT 15  
US-09-215-681-92/c

; Sequence 92, Application US/09215681A  
; Patent No. 6528253  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Frudakis, Tony N.  
; APPLICANT: King, Gordon E.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS  
; FILE REFERENCE: 210121.463  
; CURRENT APPLICATION NUMBER: US/09/215,681A  
; CURRENT FILING DATE: 1998-12-17  
; NUMBER OF SEQ ID NOS: 310  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 92  
; LENGTH: 551  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-215-681-92

Alignment Scores:  
Pred. No.: 0.46 Length: 551  
Score: 72.00 Matches: 31  
Percent Similarity: 39.81% Conservative: 10  
Best Local Similarity: 30.10% Mismatches: 32  
Query Match: 16.18% Indels: 31  
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-215-681-92 (1-551)

QY 6 GlnLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
DB 354 GAGTTCATCTTTCTTCATCTTTTAAGCCCGGTTTCAATTAACCTTACCTCTCTC 295  
QY 23 ArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGlnLeuGlnLeu 42  
DB 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTGCAGGGC 250  
QY 43 AspGlyMetAla-----PheGlnGlnAlaLeuAspProGly--- 54  
DB 249 AGTGGCCAGGCGCTCCTGAGCAGGTCACGCTCTTCTTCAACAGCTGGATCTACGGTT 190  
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnLeuLeu 67  
DB 189 CAAGAGGCCACCTCAGCTCAGCTGTCTCCGGCCCGCTTCTCCCT-CAACTTCTC 131  
QY 68 AspAspGlyGlnGlnAlaSerProTyTrHis-----ProGlySer 80  
DB 130 GCTGAGGCGCTCAGCTGCTCCTCTGCAATCCTGCTGCTGCTGCAAGAACTGGATCT 71  
QY 81 CysGlyAla 83  
DB 70 TGGCGTTCA 62

Search completed: November 15, 2004, 23:13:23  
Job time : 29.9382 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:42:48 ; Search time 118.189 Seconds  
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Title: US-08-978-217-6

Perfect score: 252  
Sequence: 1 AATTGGCCCTTGAGAGCT.....CCGGCAGCTGTGGCGCAGGA 252

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0  
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Maximum Match 100%  
Listing first 45 summaries

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Published Applications\_NA:\*

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- 19: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	252	100.0	563	9	US-09-922-217-944
C 2	252	100.0	563	9	US-09-833-263-944
C 3	252	100.0	563	13	US-10-025-380-944
C 4	252	100.0	626	9	US-09-922-217-853
C 5	252	100.0	626	9	US-09-833-263-853
C 6	252	100.0	626	13	US-10-025-380-853
7	252	100.0	1907	14	US-10-097-340-74
8	252	100.0	1907	15	US-10-291-808-27
9	252	100.0	1915	9	US-09-964-824A-101
10	252	100.0	1915	9	US-09-964-824A-563
11	252	100.0	1915	9	US-09-880-107-3420
12	252	100.0	1915	9	US-09-967-768A-192

13	252	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
14	252	100.0	1917	13	US-10-025-380-1105	Sequence 1105, Ap
15	252	100.0	1956	16	US-10-264-049-756	Sequence 756, App
16	252	100.0	1996	9	US-09-925-301-207	Sequence 207, App
17	252	100.0	2269	15	US-10-131-410-64	Sequence 64, App1
18	249	98.8	355	9	US-09-867-701-4818	Sequence 4818, Ap
19	174	69.0	174	9	US-09-998-598-1740	Sequence 1740, Ap
C 20	63	25.0	437	9	US-09-998-598-2216	Sequence 2216, Ap
C 21	42.4	16.8	14538	17	US-10-741-601-49	Sequence 49, App1
22	42.4	16.8	14745	17	US-10-741-601-48	Sequence 48, App1
C 23	42	16.7	1286	17	US-10-437-963-38286	Sequence 38286, A
24	42	16.7	49680	16	US-10-459-262A-1	Sequence 1, App1
25	40.4	16.0	13635	16	US-10-464-368-30	Sequence 30, App1
26	40.4	16.0	13635	16	US-10-210-175-13	Sequence 13, App1
27	40.4	16.0	13836	13	US-10-087-192-671	Sequence 671, App
28	40.4	16.0	14887	16	US-10-276-774-373	Sequence 373, App
29	40.4	16.0	14889	15	US-10-101-510-356	Sequence 356, App
30	40.4	16.0	14896	11	US-09-750-972-6	Sequence 6, App1
31	40.4	16.0	14896	16	US-10-159-563-206	Sequence 206, App
C 32	40	15.9	888	16	US-10-282-122A-31712	Sequence 31712, A
33	39	15.5	910	18	US-10-425-115-31177	Sequence 31177, A
34	38.8	15.4	532	13	US-10-027-632-280565	Sequence 280565, A
35	38.8	15.4	532	15	US-10-027-632-280565	Sequence 280565, A
36	38.8	15.4	534	15	US-10-023-386-11328	Sequence 11328, A
37	38.8	15.4	1011	15	US-10-023-386-25041	Sequence 25041, A
C 38	38.8	15.4	5173	9	US-09-880-107-3356	Sequence 3356, App
C 39	38.8	15.4	5173	15	US-10-171-581-159	Sequence 159, App
40	38.4	15.2	532	13	US-10-027-632-280564	Sequence 280564, A
41	38.4	15.2	532	15	US-10-027-632-280564	Sequence 280564, A
42	38.2	15.2	201	17	US-10-741-601-1461	Sequence 1461, Ap
43	38.2	15.2	201	17	US-10-741-601-1504	Sequence 1504, Ap
44	38.2	15.2	946	17	US-10-437-963-53331	Sequence 53331, A
45	37.4	14.8	31263	16	US-10-282-122A-25447	Sequence 25447, A

#### ALIGNMENTS

RESULT 1  
US-09-922-217-944/C  
; Sequence 944, Application US/09922217  
; Patent No. US2002007641A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongrong  
; APPLICANT: Jiang, Yuguin  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922, 217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 944  
; LENGTH: 563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-922-217-944

Query Match 100.0%; Score 252; DB 9; Length 563;  
Best Local Similarity 100.0%; Pred. No. 2.7e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 120
Db 412 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 353
QY 121 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 180
Db 352 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 293
QY 181 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 240
Db 292 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 233
QY 241 TGTGGCGCAGGA 252
Db 232 TGTGGCGCAGGA 221
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## RESULT 2

US-09-833-263-944/c

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/ Sequence 944, Application US/09833263
/ Patent No. US20020110547A1
/ GENERAL INFORMATION:
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/ APPLICANT: Wang, Aijun
/ APPLICANT: Clapper, Jonathan D.
/ APPLICANT: Stolk, John A.
/ APPLICANT: Meagher, Madeleine J.
/ TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
/ FILE REFERENCE: 210121.471C12
/ CURRENT APPLICATION NUMBER: US/09/833,263
/ CURRENT FILING DATE: 2001-04-10
/ NUMBER OF SEQ. ID NOS: 1093
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 944
/ LENGTH: 563
/ TYPE: DNA
/ ORGANISM: Homo sapien
/ US-09-833-263-944
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Query Match 100.0%; Score 252; DB 9; Length 563;
Best Local Similarity 100.0%; Pred. No. 2,7e-66;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 472 AATTGTCCTTGGAGAGCTGCGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 413
QY 61 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 120
Db 412 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 353
QY 121 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 180
Db 352 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 293
QY 181 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 240
Db 292 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 233
QY 241 TGTGGCGCAGGA 252
Db 232 TGTGGCGCAGGA 221
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## RESULT 3

US-10-025-380-944/c

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/ Sequence 944, Application US/10025380
/ Publication No. US20020182191A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
```

```
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Secrist, Heather
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Meagher, Madeleine Joy
/ APPLICANT: Stolk, John A.
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Jiang, Yugu
/ APPLICANT: Smith, Carole L.
/ APPLICANT: King, Gordon E.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Clapper, Jonathan D.
/ APPLICANT: Skeiky, Yasser A. W.
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Vedvick, Thomas S.
/ APPLICANT: Carter, Darick
/ TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
/ FILE REFERENCE: 210121.471C14
/ CURRENT APPLICATION NUMBER: US/10/025,380
/ CURRENT FILING DATE: 2001-12-19
/ NUMBER OF SEQ. ID NOS: 1129
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 944
/ LENGTH: 563
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-10-025-380-944
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Query Match 100.0%; Score 252; DB 13; Length 563;
Best Local Similarity 100.0%; Pred. No. 2,7e-66;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 AATTGTCCTTGGAGAGCTGCGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 60
Db 472 AATTGTCCTTGGAGAGCTGCGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 413
QY 61 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 120
Db 412 CACCTGGAGACCTCACTTCAGCTCTTGTATGAGCTCAAGTGGATTTAGAGCTGCTG 353
QY 121 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 180
Db 352 GAGAGAGATGAGCTGCTCTTCAAGAGGCTTACAGCCAGGCTCTTGAACAGGAGC 293
QY 181 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 240
Db 292 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGGCTCAGAGGCTCTTGAACAGGAGC 233
QY 241 TGTGGCGCAGGA 252
Db 232 TGTGGCGCAGGA 221
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## RESULT 4

US-09-922-217-853/c

```
/ Sequence 853, Application US/09922217
/ Patent No. US2002007641A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Secrist, Heather
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Meagher, Madeleine Joy
/ APPLICANT: Stolk, John A.
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Jiang, Yugu
/ APPLICANT: Smith, Carole Lynn
/ APPLICANT: King, Gordon E.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Clapper, Jonathan D.
/ TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
/ FILE REFERENCE: 210121.471C13
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;; CURRENT APPLICATION NUMBER: US/09/922,217  
;; CURRENT FILING DATE: 2001-08-03  
;; NUMBER OF SEQ ID NOS: 1124  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 853  
;; LENGTH: 626  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-922-217-853

Query Match 100.0%; Score 252; DB 9; Length 626;  
Best Local Similarity 100.0%; Pred. No. 2.8e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 60  
DB 471 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 412  
QY 61 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 120  
DB 411 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 352  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTGACCAAGGCGAGC 180  
DB 351 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTGACCAAGGCGAGC 292  
QY 181 CCTTTGGCCAGAGAGCTGCTGAGACAGAGGTGACAGACCCCTTACCAACCCCGGCGAGC 240  
DB 291 CCTTTGGCCAGAGAGCTGCTGAGACAGAGGTGACAGACCCCTTACCAACCCCGGCGAGC 232  
QY 241 TGTGGCGCAGGA 252  
DB 231 TGTGGCGCAGGA 220

## RESULT 5

US-09-833-263-853/c  
;; Sequence 853, Application US/09833263  
;; Patent No. US20020110547A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Wang, Aijun  
;; APPLICANT: Clapper, Jonathan D.  
;; APPLICANT: Stoik, John A.  
;; APPLICANT: Meagher, Madeleine J.  
;; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
;; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
;; FILE REFERENCE: 210121.471C12  
;; CURRENT APPLICATION NUMBER: US/09/833,263  
;; CURRENT FILING DATE: 2001-04-10  
;; NUMBER OF SEQ ID NOS: 1093  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 853  
;; LENGTH: 626  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-833-263-853

Query Match 100.0%; Score 252; DB 9; Length 626;  
Best Local Similarity 100.0%; Pred. No. 2.8e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 60  
DB 471 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 412  
QY 61 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 120  
DB 411 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 352  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTGACCAAGGCGAGC 180  
DB 351 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTGACCAAGGCGAGC 292

QY 181 CCTTTGGCCAGAGAGCTGCTGAGACAGGTGACAGACCCCTTACCAACCCCGGCGAGC 240  
DB 291 CCTTTGGCCAGAGAGCTGCTGAGACAGGTGACAGACCCCTTACCAACCCCGGCGAGC 232  
QY 241 TGTGGCGCAGGA 252  
DB 231 TGTGGCGCAGGA 220

## RESULT 6

US-10-025-380-853/c  
;; Sequence 853, Application US/10025380  
;; Publication No. US20020182191A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Xu, Jiangchun  
;; APPLICANT: Lodes, Michael J.  
;; APPLICANT: Secrist, Heather  
;; APPLICANT: Benson, Darin R.  
;; APPLICANT: Meagher, Madeleine Joy  
;; APPLICANT: Stoik, John A.  
;; APPLICANT: Wang, Tongrong  
;; APPLICANT: Jiang, Yugu  
;; APPLICANT: Smith, Carole L.  
;; APPLICANT: King, Gordon B.  
;; APPLICANT: Wang, Aijun  
;; APPLICANT: Clapper, Jonathan D.  
;; APPLICANT: Skeiky, Yaasi A. W.  
;; APPLICANT: Fanger, Gary R.  
;; APPLICANT: Vedvyck Thomas S.  
;; APPLICANT: Carter, Darick  
;; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
;; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
;; FILE REFERENCE: 210121.471C14  
;; CURRENT APPLICATION NUMBER: US/10/025,380  
;; CURRENT FILING DATE: 2001-12-19  
;; NUMBER OF SEQ ID NOS: 1129  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 853  
;; LENGTH: 626  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-025-380-853

Query Match 100.0%; Score 252; DB 13; Length 626;  
Best Local Similarity 100.0%; Pred. No. 2.8e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 60  
DB 471 AATTGTCCTTTAGAGAGCTGCTGCTGCTTTGGGCTCTGGGGAGCAACTCCATGCC 412  
QY 61 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 120  
DB 411 CAGCTGAGAGCACTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 352  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTTACCAAGGCGAGC 180  
DB 351 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCTTTTACCAAGGCGAGC 292  
QY 181 CCTTTGGCCAGAGAGCTGCTGAGACAGAGGTGACAGACCCCTTACCAACCCCGGCGAGC 240  
DB 291 CCTTTGGCCAGAGAGCTGCTGAGACAGAGGTGACAGACCCCTTACCAACCCCGGCGAGC 232  
QY 241 TGTGGCGCAGGA 252  
DB 231 TGTGGCGCAGGA 220

## RESULT 7

US-10-097-340-74  
;; Sequence 74, Application US/10097340  
;; Publication No. US20030087250A1  
;; GENERAL INFORMATION:

APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNAVARAPU  
APPLICANT: Sebastian HOERSCHE  
APPLICANT: Shubhangi KAMATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VERIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
Assessment, Prevention, and Therapy Of Ovarian Cancer  
FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FaSeq for Windows Version 4.0  
SEQ ID NO 74  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 100.0%; Score 252; DB 14; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCTGCTTTGGGCTCTGGGGGACCACTCCATGCC 60  
DB 405 AATTGTCCTTGAAGAGCTGCTGCTTTGGGCTCTGGGGGACCACTCCATGCC 464  
QY 61 CAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGGATCATTTAGCTGCTG 120  
DB 465 CAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGGATCATTTAGCTGCTG 524  
QY 121 GAGAAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGAGGCTTTGACAGAGGAGC 180  
DB 525 GAGAAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGAGGCTTTGACAGAGGAGC 584  
QY 181 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGAGCCCTTACACCCCGGAGC 240  
DB 585 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGAGCCCTTACACCCCGGAGC 644  
QY 241 TGTGGCGCAGGA 252  
DB 645 TGTGGCGCAGGA 656

RESULT 8  
US-10-291-808-27  
Sequence 27, Application US/10291808  
Publication No. US20030224382A1  
GENERAL INFORMATION:

APPLICANT: McClelland, Michael  
APPLICANT: Welsh, John  
APPLICANT: Trenkle, Thomas  
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
FILE REFERENCE: F-PH 3457  
CURRENT APPLICATION NUMBER: US/10/291,808  
CURRENT FILING DATE: 2002-11-07  
PRIOR APPLICATION NUMBER: US/09/300,958  
PRIOR FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/083,331  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/098,070  
PRIOR FILING DATE: 1998-08-27  
PRIOR APPLICATION NUMBER: 60/118,624  
PRIOR FILING DATE: 1999-02-04  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-291-808-27

Query Match 100.0%; Score 252; DB 15; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCTGCTTTGGGCTCTGGGGGACCACTCCATGCC 60  
DB 405 AATTGTCCTTGAAGAGCTGCTGCTTTGGGCTCTGGGGGACCACTCCATGCC 464  
QY 61 CAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGGATCATTTAGCTGCTG 120  
DB 465 CAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGGATCATTTAGCTGCTG 524  
QY 121 GAGAAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGAGGCTTTGACAGAGGAGC 180  
DB 525 GAGAAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGAGGCTTTGACAGAGGAGC 584  
QY 181 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGAGCCCTTACACCCCGGAGC 240  
DB 585 CCCTTTGCCAGAGCTGCTGAGAGGCTCAGAGAGCCCTTACACCCCGGAGC 644  
QY 241 TGTGGCGCAGGA 252  
DB 645 TGTGGCGCAGGA 656

RESULT 9  
US-09-964-824A-101  
Sequence 101, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horrigan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964,824A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236,033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236,028  
PRIOR FILING DATE: 2000-09-28  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 101  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-964-824A-101

Query Match 100.0%; Score 252; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 60  
DB 429 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 488  
QY 61 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 120  
DB 489 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 548  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 180  
DB 549 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 608  
QY 181 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 240  
DB 609 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 668  
QY 241 TGTGGCGCAGGA 252  
DB 669 TGTGGCGCAGGA 680

RESULT 10  
US-09-964-824A-563

; Sequence 563, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 583  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 563  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-563

Query Match 100.0%; Score 252; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 60  
DB 429 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 488  
QY 61 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 120  
DB 489 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 548  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 180  
DB 549 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 608  
QY 181 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 240  
DB 609 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 668  
QY 241 TGTGGCGCAGGA 252  
DB 669 TGTGGCGCAGGA 680

DB 669 TGTGGCGCAGGA 680

RESULT 11

US-09-880-107-3420  
; Sequence 3420, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Daryl T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3420  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843  
US-09-880-107-3420

Query Match 100.0%; Score 252; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 60  
DB 429 AATTGTCCTTGAAGAGCTGCTGTGCTTTTGGGCTTGGGGAGCAACTCCATGCCC 488  
QY 61 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 120  
DB 489 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAGTTGATCATTTAGCTGCTG 548  
QY 121 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 180  
DB 549 GAGAGAGATGAGTGGCTTCCAGAGAGCCCTTAGACCCAGAGCCCTTTGACAGGGGAGC 608  
QY 181 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 240  
DB 609 CCCTTTGCCAGAGAGCTGTGAGCAGCGGTCAAGCAAGCCCTTACCAAGCCCGGAGC 668  
QY 241 TGTGGCGCAGGA 252  
DB 669 TGTGGCGCAGGA 680

RESULT 12  
US-09-967-768A-192  
; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325

SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-967-768A-192

Query Match 100.0%; Score 252; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 60  
DB 429 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 488  
QY 61 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 120  
DB 489 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 548  
QY 121 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 180  
DB 549 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 608  
QY 181 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 240  
DB 609 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 668  
QY 241 TGTGGCGCAGGA 252  
DB 669 TGTGGCGCAGGA 680

## RESULT 13

US-09-922-217-1105  
; Sequence 1105, Application US/09922217  
; Patent No. US2002007641A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeline Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tonglong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aljun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922.217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105  
; LENGTH: 1917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1105

Query Match 100.0%; Score 252; DB 9; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 60  
DB 431 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 490  
QY 61 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 120  
DB 491 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 550

QY 121 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 180  
DB 551 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 610  
QY 181 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 240  
DB 611 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 670  
QY 241 TGTGGCGCAGGA 252  
DB 671 TGTGGCGCAGGA 682

## RESULT 14

US-10-025-380-1105  
; Sequence 1105, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeline Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tonglong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aljun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skelky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025.380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105  
; LENGTH: 1917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1105

Query Match 100.0%; Score 252; DB 13; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 60  
DB 431 AATTGTCCTTGAAGAGCTGCGCTTGTGCTTTGGGCTCTGGGGGACCAATTCATGCC 490  
QY 61 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 120  
DB 491 CAGCTCGAGAACCTCACTTCCAGTCTTCTTGATGAGCTCACTTGATGAGCTGCTG 550  
QY 121 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 180  
DB 551 GAGAGGATGGCCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACAGGCGAGC 610  
QY 181 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 240  
DB 611 CCCTTTGCCAGAGCTGCTGAGACGAGCTCAGCAAGCCCAACCCCGGAGC 670  
QY 241 TGTGGCGCAGGA 252  
DB 671 TGTGGCGCAGGA 682

RESULT 15  
US-10-264-049-756  
; Sequence 756, Application US/10264049  
; Publication No. US20040005579A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA133P1  
; CURRENT APPLICATION NUMBER: US/10/264,049  
; PRIOR APPLICATION NUMBER: PCT/US01/18569  
; PRIOR FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: US 60/209,467  
; PRIOR FILING DATE: 2000-06-07  
; NUMBER OF SEQ ID NOS: 4360  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 756  
; LENGTH: 1956  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-264-049-756

Query Match 100.0%; Score 252; DB 16; Length 1956;  
Best Local Similarity 100.0%; Pred. No. 3e-66;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	AATTGTCCTTGAGAGCTGCGTCTTGTGCTTTGGGCTCTGGGGACCACTCCATGCC	60
Db	470	AATTGTCCTTGAGAGCTGCGTCTTGTGCTTTGGGCTCTGGGGACCACTCCATGCC	529
QY	61	CAGCTGGAGACCTCACTTCCAGCTCTTGTATGAGCTCAGTTCATTGAGCTGCTG	120
Db	530	CAGCTGGAGACCTCACTTCCAGCTCTTGTATGAGCTCAGTTCATTGAGCTGCTG	589
QY	121	GAGAAGGATGGATGCGCTTCCAGAGGCCCTAGACCAGGGCCCTTTGACAGAGCAGC	180
Db	590	GAGAAGGATGGATGCGCTTCCAGAGGCCCTAGACCAGGGCCCTTTGACAGAGCAGC	649
QY	181	CCCTTTGCCAGAGCTGCTGAGAGGTCAGCAAGCCCTTACCACTCCGGGAGC	240
Db	650	CCCTTTGCCAGAGCTGCTGAGAGGTCAGCAAGCCCTTACCACTCCGGGAGC	709
QY	241	TGTGGCGCAGGA	252
Db	710	TGTGGCGCAGGA	721

Search completed: November 15, 2004, 23:08:41  
Job time : 121.189 secs

**This Page Blank (usp10)**



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OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:35:22 ; Search time 21.2688 Seconds  
(without alignments)  
8413.757 Million cell updates/sec

Title: US-08-978-217-6

Perfect score: 252  
Sequence: 1 AATTGGCCCTTGAGGAGCT.....CCGACAGCTGTGGCCGAGGA 252

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
1: /cgn2\_6/prodata/1/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/PCUTS\_COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/backfile1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	* Query Match Length	DB ID	Description
1	252	100.0	1907 4	US-09-300-958A-27 Sequence 27, Appl
2	252	100.0	1907 4	US-09-570-593-4 Sequence 4, Appl
3	252	100.0	1920 1	US-08-746-789A-1 Sequence 1, Appl
4	39	15.5	276 4	US-09-313-294A-3437 Sequence 3437, Ap
5	38.8	15.4	5173 1	US-08-242-677-1 Sequence 1, Appl
6	36.2	14.4	741 4	US-09-252-991A-12066 Sequence 12066, A
7	36.2	14.4	918 4	US-09-252-991A-12009 Sequence 12009, A
8	36.2	14.4	1650 4	US-09-252-991A-8097 Sequence 8097, Ap
9	36.2	14.4	2145 4	US-09-252-991A-8205 Sequence 8205, Ap
10	35	13.9	1975 2	US-08-852-743-1 Sequence 1, Appl
11	35	13.9	1975 3	US-09-185-370-1 Sequence 1, Appl
12	35	13.9	2161 2	US-08-712-709-4 Sequence 4, Appl
13	35	13.9	2161 3	US-09-111-444-4 Sequence 4, Appl
14	35	13.9	2161 4	US-09-541-228-4 Sequence 4, Appl
15	34.8	13.8	621 4	US-09-252-991A-8781 Sequence 8781, Ap
16	34.8	13.8	921 4	US-09-252-991A-9092 Sequence 9092, Ap
17	34.8	13.8	1512 4	US-09-252-991A-9180 Sequence 9180, Ap
18	34.8	13.8	1533 4	US-09-252-991A-8895 Sequence 8895, Ap
19	34.8	13.8	1758 4	US-09-252-991A-8997 Sequence 8997, Ap
20	34.6	13.7	6972 4	US-09-595-684B-38 Sequence 38, Appl
21	34.6	13.7	8309 4	US-09-620-312D-1083 Sequence 1083, Ap
22	34.4	13.7	780 4	US-09-489-039A-4778 Sequence 4778, Ap
23	34	13.5	3141 2	US-08-956-242-1 Sequence 1, Appl
24	34	13.5	3141 3	US-09-351-215-1 Sequence 1, Appl
25	33.8	13.4	2128 4	US-09-620-312D-197 Sequence 197, App
26	33.8	13.4	25603 4	US-09-819-607-3 Sequence 3, Appl
27	33.6	13.3	465 4	US-09-621-976-2488 Sequence 2488, Ap

28	33.6	13.3	618 4	US-09-252-991A-7654 Sequence 7654, Ap
29	33.6	13.3	687 4	US-09-780-717-30 Sequence 30, Appl
30	33.6	13.3	744 4	US-09-252-991A-7749 Sequence 7749, Appl
31	33.6	13.3	798 4	US-09-252-991A-7739 Sequence 7739, Appl
32	33.6	13.3	1214 4	US-09-780-717-28 Sequence 28, Appl
33	33.6	13.3	4970 4	US-09-816-095-1 Sequence 1, Appl
34	33.2	13.2	921 4	US-09-252-991A-1415 Sequence 1415, Ap
35	33.2	13.2	1206 4	US-09-252-991A-16406 Sequence 16406, A
36	33.2	13.2	1883 4	US-09-252-991A-16300 Sequence 16300, A
37	33.2	13.1	1107 4	US-09-252-991A-3936 Sequence 3936, Ap
38	33	13.1	1134 4	US-09-252-991A-3908 Sequence 3908, Ap
39	33	13.1	1217 3	US-09-594-669-11 Sequence 11, Appl
40	33	13.1	1217 3	US-10-112-432-11 Sequence 11, Appl
41	33	13.1	1304 3	US-09-594-669-9 Sequence 9, Appl
42	33	13.1	1304 4	US-10-112-432-9 Sequence 9, Appl
43	33	13.1	1326 4	US-09-252-991A-4002 Sequence 4002, Ap
44	33	13.1	1420 3	US-09-594-669-7 Sequence 7, Appl
45	33	13.1	1421 4	US-10-112-432-7 Sequence 7, Appl

## ALIGNMENTS

RESULT 1				
US-09-300-958A-27				
Sequence 27, Application US/09300958A				
Patent No. 6495319				
GENERAL INFORMATION:				
APPLICANT: McClelland, Michael				
APPLICANT: Welsh, John				
APPLICANT: Trencle, Thomas				
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of				
TITLE OF INVENTION: Using Same				
FILE REFERENCE: P-PH 3457				
CURRENT APPLICATION NUMBER: US/09/300,958A				
PRIORITY FILING DATE: 1999-04-27				
PRIOR APPLICATION NUMBER: 60/083,331				
PRIOR FILING DATE: 1998-04-27				
PRIOR APPLICATION NUMBER: 60/098,070				
PRIOR FILING DATE: 1998-08-27				
PRIOR APPLICATION NUMBER: 60/118,624				
PRIOR FILING DATE: 1999-02-04				
NUMBER OF SEQ ID NOS: 85				
SOFTWARE: Patentin Ver. 2.0				
SEQ ID NO 27				
LENGTH: 1907				
TYPE: DNA				
ORGANISM: Homo sapiens				
US-09-300-958A-27				
Query Match				
Best Local Similarity 100.0%; Pred. No. 3.9e-60;				
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1	AATTGGCCCTTGAGGAGCTGCTGCTCTTGGGCTCTGGGGACCACTCCATGCC	60	
DB	405	AATTGGCCCTTGAGGAGCTGCTGCTCTTGGGCTCTGGGGACCACTCCATGCC	464	
QY	61	CAGCTCGAGACCTCACTTCCAGCTCTTGTAGTGAAGCTGATGATCAATTGAGCTGTG	120	
DB	465	CAGCTCGAGACCTCACTTCCAGCTCTTGTAGTGAAGCTGATGATCAATTGAGCTGTG	524	
QY	121	GAGAAGATGGCATGGCTCTTCCAGAGGCGCTTACAGCCAGGCGCTTTACAGGGCAGC	180	
DB	525	GAGAAGATGGCATGGCTCTTCCAGAGGCGCTTACAGCCAGGCGCTTTACAGGGCAGC	584	
QY	181	CCCTTGGCCAGAGGCTGCTGAGCAGCGTTCAGCAAGCCAGCCCTTACACCCGGCAGC	240	
DB	585	CCCTTGGCCAGAGGCTGCTGAGCAGCGTTCAGCAAGCCAGCCCTTACACCCGGCAGC	644	
QY	241	TGTGGCCAGGA 252		
DB	645	TGTGGCCAGGA 656		

## RESULT 2

US-09-570-593-4  
Sequence 4, Application US/09570593  
Patent No. 6566063  
GENERAL INFORMATION:  
APPLICANT: Kaufmann, Joerg  
APPLICANT: Xin, Hong  
APPLICANT: Hartowe, Greg  
TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
FILE REFERENCE: 2300-1556  
CURRENT APPLICATION NUMBER: US/09/570,593  
CURRENT FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: 60/134,112  
PRIOR FILING DATE: 1999-05-14  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (96)...(1211)  
OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 100.0%; Score 252; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 3.9e-60;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGGAGAGCTGCTGCTCTTTGGGCTCTGGGGAGCAACTCCATGCC 60  
DB 405 AATTGTCCTTGGAGAGCTGCTGCTCTTTGGGCTCTGGGGAGCAACTCCATGCC 464  
QY 61 CAGCTGGAGAGCTCACTTCAGCTCTTGATGAGCTCATTTGAGCTGCTG 120  
DB 465 CAGCTGGAGAGCTCACTTCAGCTCTTGATGAGCTCATTTGAGCTGCTG 524  
QY 121 GAGAGAGATGAGATGAGCTCTTCCAGAGAGCCCTTGAACAGAGGAGC 180  
DB 525 GAGAGAGATGAGATGAGCTCTTCCAGAGAGCCCTTGAACAGAGGAGC 584  
QY 181 CCCTTTGCCAGAGAGCTGCTGAGAGAGCTGAGAGAGCCCTTGAACAGAGGAGC 240  
DB 585 CCCTTTGCCAGAGAGCTGCTGAGAGAGCTGAGAGAGCCCTTGAACAGAGGAGC 644  
QY 241 TGTGGCGCAGGA 252  
DB 645 TGTGGCGCAGGA 656

## RESULT 3

US-08-746-789A-1  
Sequence 1, Application US/08746789A  
Patent No. 5789200  
GENERAL INFORMATION:  
APPLICANT: Ismaili Kola, Martin J. Tyms, Christine DeBouck  
TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road, P.O. Box 1539  
CITY: King of Prussia  
STATE: PA  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
COMPUTER: IBM 486

OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
SOFTWARE: MICROSOFT WORD  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/746,789A  
FILING DATE: No. 5789200el 15, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: William T. Han  
REGISTRATION NUMBER: 34,344  
REFERENCE/DOCKET NUMBER: ATG 50024  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610 270 5219  
TELEFAX: 610 270 4026  
INFORMATION FOR SEQ. ID NO. 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1920  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: No  
US-08-746-789A-1

Query Match 100.0%; Score 252; DB 1; Length 1920;  
Best Local Similarity 100.0%; Pred. No. 3.9e-60;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTCCTTGGAGAGCTGCTGCTCTTTGGGCTCTGGGGAGCAACTCCATGCC 60  
DB 424 AATTGTCCTTGGAGAGCTGCTGCTCTTTGGGCTCTGGGGAGCAACTCCATGCC 483  
QY 61 CAGCTGGAGAGCTCACTTCAGCTCTTGATGAGCTCATTTGAGCTGCTG 120  
DB 484 CAGCTGGAGAGCTCACTTCAGCTCTTGATGAGCTCATTTGAGCTGCTG 543  
QY 121 GAGAGAGATGAGATGAGCTCTTCCAGAGAGCCCTTGAACAGAGGAGC 180  
DB 544 GAGAGAGATGAGATGAGCTCTTCCAGAGAGCCCTTGAACAGAGGAGC 603  
QY 181 CCCTTTGCCAGAGAGCTGCTGAGAGAGCTGAGAGAGCCCTTGAACAGAGGAGC 240  
DB 604 CCCTTTGCCAGAGAGCTGCTGAGAGAGCTGAGAGAGCCCTTGAACAGAGGAGC 663  
QY 241 TGTGGCGCAGGA 252  
DB 664 TGTGGCGCAGGA 675

## RESULT 4

US-09-313-294A-3437  
Sequence 3437, Application US/09313294A  
Patent No. 6476212  
GENERAL INFORMATION:  
APPLICANT: Lalugudi, Raghunath V.  
APPLICANT: Ito, Laura Y.  
APPLICANT: Sherman, Bradley K.  
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR  
FILE REFERENCE: PL-0017 US  
CURRENT APPLICATION NUMBER: US/09/313,294A  
CURRENT FILING DATE: 1999-05-14  
NUMBER OF SEQ ID NOS: 7600  
SOFTWARE: PERL Program  
SEQ ID NO 3437  
LENGTH: 276  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. 6476212 700611585H1  
US-09-313-294A-3437

Query Match 15.5%; Score 39; DB 4; Length 276;  
Best Local Similarity 49.3%; Pred. No. 0.081;  
Matches 102; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 42 GGGGACCACTGATGAGCCAGTGGAGACCTTCACTTCAGCTCTTGTATAGCTCAG 101  
DB 60 GGTGGAGCCACTGTCTGAGAGTCTTCGACGCTTCTCATATTTCCGATCGCTTCCC 119  
QY 102 TTGATCATTTGAGCTGCTGAGAGAGATGAGCATGAGCTTTCAGAGGCCCTTACCCAG 161  
DB 120 GCAGATCTGGAGATTTCTACAAGAGAGCGGTGGCTCTTCTTGACGCGCCAGAGATTGA 179  
QY 162 GCCCTTTGACGAGGAGCCCTTTTGCCAGAGCTGCTGAGACGAGCTCAGAACCCAG 221  
DB 180 CCTCTCTGCGCAGCGCCCGGACGAGGCGGTGTCTCCCGACGAGGCGCACTTCAT 239  
QY 222 CCCCTACCAACCCCGGAGCTGTGGCGC 248  
DB 240 CTCTCACTGCTGCTGCTTCTTCCGCGC 266

## RESULT 5

US-08-242-677-1/c  
; Sequence 1, Application US/08242677  
; Patent No. 5677143  
; GENERAL INFORMATION:  
; APPLICANT: Gaynor, Richard B  
; APPLICANT: Wu, Foon W.  
; TITLE OF INVENTION: Cellular Nucleic Acid Binding Protein  
; TITLE OF INVENTION: and uses thereof in regulating Gene Expression and in the  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: TX  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/242,677  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mayfield, Denise L.  
; REGISTRATION NUMBER: 33,732  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713-787-1400  
; TELEFAX: 713-789-2679  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5173 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; NAME/KEY: CDS  
; LOCATION: 1..4863  
US-08-242-677-1

Query Match 15.4%; Score 38.8; DB 1; Length 5173;  
Best Local Similarity 50.5%; Pred. No. 0.21;  
Matches 94; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 48 CCAACTGCATCCGAGCTGGAGACCTCACTTCAGCTCTTGTATAGCTCAGTTGAT 107

DB 193 CCACTCGCGCGCCGCTTCGAGAGCGCCCTGCGCCCGCTGCGCGCTCTCTCT 134  
QY 108 CATTGAGCTGTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 167  
DB 133 CTTGAGCGCTGTGAG 74  
QY 168 TGAACGAGGAGCGCCCTTTTGCCAGAGAGCTGTGAGAGAGAGAGAGAGAGAGAGAG 227  
DB 73 GGCACAGCGCCCGGACGAG 14  
QY 228 CCAACC 233  
DB 13 GCACCC 8

## RESULT 6

US-09-252-991A-12066  
; Sequence 12066, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 12066  
; LENGTH: 741  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-12066

Query Match 14.4%; Score 36.2; DB 4; Length 741;  
Best Local Similarity 47.6%; Pred. No. 0.62;  
Matches 107; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 16 GAGCTGCGTCTGTCTTTGAGGCTTGGAGGACCACTTCAGTCCAGCTGCGAGACTTC 75  
DB 29 GAGCGCTTCTGCGCGCGCGGAGCGGCGCTGGAATGGAACCTGCGCTGTGACTG 88  
QY 76 ACTTCAAGCTCTTGTATGAGCTCACTTGAATCATTTGAGTCTGTGAGAGAGATGCGATG 135  
DB 89 AACACCACTTCATCAAGGCAATGATGACATCTGACCTCTCGAAGAGGCCACACAG 148  
QY 136 GCCTTCAGAGAGGCTTACACCAAGGCGCTTTGACCAAGGAGCGCCCTTGGCCAGAG 195  
DB 149 GCGGCTGCCCGGTACGCTGCTGCGCTGACACTACGACCGGCGAAGAGAGGTCGCGAG 208  
QY 196 CTGCTGAGAGAGGATGAG 240  
DB 209 CTGGCGGAGAGATTCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 253

## RESULT 7

US-09-252-991A-12009  
; Sequence 12009, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27





STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-712-709-4

Query Match 13.9%; Score 35; DB 2; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.8;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCACTCCATGCCCCAGCTGCGAGACCTCACTTCAGTCTTGATGAGCTCAGTTGG 105  
DB 286 GAGAGAGCTCTTACCAAGCTCGACCCGATTTGGCAAGGCTCGTTGGGAGGCTTACAG 345  
QY 106 ATGATTGAGCTGCTGAGAGAGATGGCATGGCCCTTCCAGAGGCGCTAGACCCAGGGCCC 165  
DB 346 GGCATCGATTAACCAACAAGAGAGTGTGGCCATCAAGATCATGACTGAGAGAGGCC 405  
QY 166 TTGACCCAGGAGCCCTTTGGCCAGAGCTGCTGAGACGAGTCAAGCCAGGCCCC 225  
DB 406 GAGATGAGATCGAGACATCCAGCAGAGATCATCTCTCACTCAGTCCAGACGCCCC 465  
QY 226 TACCACCCGCGAGCTGTGGCGC 248  
DB 466 TACATCACCGCTACTTTGGCTC 488

RESULT 13  
US-09-111-444-4  
Sequence 4, Application US/09111444  
Patent No. 6045792  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guebler, Karl U.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,444  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2161 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:

CLONE: Consensus  
US-09-111-444-4

Query Match 13.9%; Score 35; DB 3; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.8;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCACTCCATGCCCCAGCTGCGAGACCTCACTTCAGTCTTGATGAGCTCAGTTGG 105  
DB 286 GAGAGAGCTCTTACCAAGCTCGACCCGATTTGGCAAGGCTCGTTGGGAGGCTTACAG 345  
QY 106 ATGATTGAGCTGCTGAGAGAGATGGCATGGCCCTTCCAGAGGCGCTAGACCCAGGGCCC 165  
DB 346 GGCATCGATTAACCAACAAGAGAGTGTGGCCATCAAGATCATGACTGAGAGAGGCC 405  
QY 166 TTGACCCAGGAGCCCTTTGGCCAGAGCTGCTGAGACGAGTCAAGCCAGGCCCC 225  
DB 406 GAGATGAGATCGAGACATCCAGCAGAGATCATCTCTCACTCAGTCCAGACGCCCC 465  
QY 226 TACCACCCGCGAGCTGTGGCGC 248  
DB 466 TACATCACCGCTACTTTGGCTC 488

RESULT 14  
US-09-541-228-4  
Sequence 4, Application US/09541228  
Patent No. 6232077  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guebler, Karl U.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/541,228  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2161 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-09-541-228-4

Query Match 13.9%; Score 35; DB 3; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.8;



**This Page Blank (usp10)**



GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 21:57:02 ; Search time 624.355 Seconds  
(without alignments)

3209.338 Million cell updates/sec

Title: US-08-978-217-2

Perfect score: 1980  
Sequence: 1 MATCEISNIFSNYSFAMYS.....YKFKKNSGKKEEVLQSHN 371

Scoring table:

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Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 3625171 segs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seg length: 0  
Maximum DB seg length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

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-Q=/cgn2\_1/USPTO.epool.p/US08978217/runat\_15112004\_103133\_12813/app\_query.fasta.1.1500  
-DB=Published Applications NA -QFMT=fastcap -SUFFIX=rmpb -MINMATCH=0.1  
-LOOPEXT=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS-human0.cdf -LIST=45 -DOCCALIGN=200 -THR SCORE=0.0 -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pro -NORM=ext -HEATSIZE=500 -MINLEN=0  
-NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPELOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications NA:  
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2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
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11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1980	100.0	1907	14	US-10-097-340-74
2	1980	100.0	1907	15	US-10-291-808-27
3	1980	100.0	1915	9	US-09-964-824A-101
4	1980	100.0	1915	9	US-09-964-824A-563
5	1980	100.0	1915	9	US-09-880-107-3420
6	1980	100.0	1915	9	US-09-667-768A-192
7	1980	100.0	1917	13	US-09-922-217-1105
8	1980	100.0	1917	13	US-10-025-380-1105
9	1980	100.0	1956	16	US-10-264-049-756
10	1980	100.0	1996	9	US-09-925-301-207
11	1654	83.5	2269	15	US-10-131-410-54
12	1127	56.9	626	9	US-09-922-217-853
13	1127	56.9	626	9	US-09-833-263-853
14	1127	56.9	626	13	US-10-025-380-853
15	1011	51.1	563	9	US-09-922-217-944
16	1011	51.1	563	9	US-09-833-263-944
17	1011	51.1	563	13	US-10-025-380-944
18	903	45.6	502	9	US-09-604-287A-282
19	903	45.6	502	9	US-09-834-759-282
20	903	45.6	502	9	US-09-339-338-282
21	903	45.6	502	10	US-09-551-621-282
22	903	45.6	502	13	US-10-007-805-282
23	903	45.6	502	14	US-10-076-622-282
24	903	45.6	502	15	US-10-124-805-282
25	822	41.5	499	9	US-09-998-598-2290
26	822	32.9	437	9	US-09-998-598-2216
27	618	31.2	355	9	US-09-867-701-4818
28	558	28.2	1429	9	US-09-764-864-330
29	556.5	28.1	1426	9	US-09-925-297-309
30	556.5	28.1	1426	15	US-10-106-698-935
31	554.5	28.0	1435	15	US-10-017-161-1953
32	554.5	28.0	1435	15	US-10-292-778-1601
33	519.5	26.2	852	9	US-09-759-143-44
34	519.5	26.2	852	9	US-09-780-665-44
35	519.5	26.2	852	9	US-09-030-606-44
36	519.5	26.2	852	9	US-09-822-827-44
37	519.5	26.2	852	9	US-09-115-453-44
38	519.5	26.2	852	9	US-09-232-880-44
39	519.5	26.2	852	9	US-09-895-793-44
40	519.5	26.2	852	9	US-09-895-814-44
41	519.5	26.2	852	13	US-10-012-896-44
42	519.5	26.2	852	14	US-10-010-940-44
43	519.5	26.2	852	15	US-10-144-678A-44
44	519.5	26.2	852	15	US-10-294-025-44
45	519.5	26.2	852	17	US-10-688-838-44

## ALIGNMENTS

RESULT 1  
US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1  
GENERAL INFORMATION:  
; APPLICANT: JONN MONAHAN  
; APPLICANT: Manjula GANNANAVARAPU  
; APPLICANT: Sebastian HOESCH  
; APPLICANT: Shubhangi KAMATKAR  
; APPLICANT: Steve G KOVARS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT  
; APPLICANT: Ami SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLIS  
; APPLICANT: Robert C. BAST, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumei ZHAO  
; APPLICANT: Karen GLATT

/ TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
 / TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
 / FILE REFERENCE: MRI-030  
 / CURRENT APPLICATION NUMBER: US/10/097,340  
 / CURRENT FILING DATE: 2002-03-14  
 / PRIOR APPLICATION NUMBER: 60/276,025  
 / PRIOR FILING DATE: 2001-03-14  
 / PRIOR APPLICATION NUMBER: 60/325,149  
 / PRIOR FILING DATE: 2001-09-26  
 / PRIOR APPLICATION NUMBER: 60/276,026  
 / PRIOR FILING DATE: 2001-03-14  
 / PRIOR APPLICATION NUMBER: 60/324,967  
 / PRIOR FILING DATE: 2001/09/26  
 / PRIOR APPLICATION NUMBER: 60/311,732  
 / PRIOR FILING DATE: 2001-08-10  
 / PRIOR APPLICATION NUMBER: 60/325,102  
 / PRIOR FILING DATE: 2001-09-26  
 / PRIOR APPLICATION NUMBER: 60/323,580  
 / PRIOR FILING DATE: 2001-09-19  
 / NUMBER OF SEQ ID NOS: 363  
 / SOFTWARE: FastSeq for Windows Version 4.0  
 / SEQ ID NO 74  
 / LENGTH: 1907  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / US-10-097-340-74

## Alignment Scores:

Pred. No.: 4,45e-219 Length: 1907  
 Score: 1980.00 Matches: 371  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14 Indels: 0  
 DB: 14 Gaps: 0

US-08-978-217-2 (1-371) x US-10-097-340-74 (1-1907)

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 Db 96 ATGGCTGCACCTGTGAGATTAGCACTTTTAGCAACTTCACTGAGTGAATGAC 155  
 QY 21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyAlaAspAspLeu 40  
 Db 156 TCGGAGAGACTCCACCTGGCTCTGTTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 215  
 QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGlnGlyThrGluLysAlaSerTrpLeu 60  
 Db 216 GTACTGACCTGTGAGCAACCCCGAGATGTCATGTGAGGGTACAGGAAGGCCAGCTGGTTG 275  
 QY 61 GtGluGlnProGlnPheTrpSerLeuThrGlnValLeuAspTrpIleSerTyGlnVal 80  
 Db 276 GGGGAACAGCCCACTTCTGTGAGAACCGCAAGTTTGTGACTGTGATCACTCAAGTG 335  
 QY 81 GluLysAsnLysTyRAspAlaSerAlaIleAspPheSerAsnTyGAspMetAspGlyAla 100  
 Db 336 GAGAAGAACAAGTACGACGCAAGGCCATTTGATCTTCAAGATGTGATGATGGGCC 395  
 QY 101 ThrLeuCysAsnTyRAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 Db 396 ACCCTGTGCAATGTGCTTGTGAGAACTGCTGTGCTTTGGGCTCTGGGGGACCA 455  
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
 Db 456 CTCATGCCAGCTGCGAAGACCTCACTTCAAGCTCTTCTATGAGCTCAAGTTGATTCATT 515  
 QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160  
 Db 516 GACCTGCTGAGAAGATGATGATGCTTCCAGAGGCCCTTAAGCCAGGGCCCTTTGAC 575  
 QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyRHis 180  
 Db 576 CAGGGCAGCCCTTTGCTGCCAGAGCTGTGTGACGACGATGAGCAAGCCAGCCCTTACAC 635

QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200  
 Db 636 CCCGGCAGCTGTGCGCAGAGAGCCCCCTCCCTGGCAGCTGTGACCTTCCACCGCAGGG 695  
 QY 201 ThrGlyAlaSerAspSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
 Db 696 ACTGGTCTTCTCGAGGCTCCCACTTCCAGACTCCGGTGAAGTACGTGACCTGGAT 755  
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240  
 Db 756 CCCACTGATGCAAGCTTCTCCCAAGCATGTGTTTCTGATCTGCAAGAAAGGGGATCCC 815  
 QY 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyLysTrpAspCys 260  
 Db 816 AAGCAGCGGAAGCGGAACGAGGCCGCCGCCGAAACCTGACGAAAGTACTGGACTGT 875  
 QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280  
 Db 876 CTCGAGGGCAAGAAAGCAAGCAGCGCCAGAGGCAACCCACTGTGGAGTTCACTCCG 935  
 QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGly 300  
 Db 936 GACATCTCATCCACCCGAGCTCAACGAGGCTTATAGTGGAGAAATGGCATGAA 995  
 QY 301 GlyValPheLysPheLeuArgSerGlyAlaValAlaGlnLeuTrpGlyGlnLysLys 320  
 Db 996 GCGCTTCAAGTCTTGGCGCTCCGAGCGTGTGGCCCACTATGGGGCAAAAGAAAG 1055  
 QY 321 AsnSerAsnMetThrTyRTrpGluLysLeuSerArgAlaMetArgTyRTrpLysArgGlu 340  
 Db 1056 AACGAGAATGATGCTTACGAGAACTGAGACCGGGCCATAGGTACTACAAACGGAG 1115  
 QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyRLeuPheGlyLysAsnSerSerGly 360  
 Db 1116 ATCTGGAACGGGTGATGCGCGGCACTGCTCAAGATTGGCAAAACTCAAGCGGC 1175  
 QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
 Db 1176 TGGAAAGAGAAAGAGGTCTTCCAGAGTCCGAAC 1208

## RESULT 2

US-10-291-808-27  
 / Sequence 27, Application US/10291808  
 / Publication No. US20030224382A1  
 / GENERAL INFORMATION:  
 / APPLICANT: McCreland, Michael  
 / APPLICANT: Welsh, John  
 / APPLICANT: Trenkle, Thomas  
 / TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
 / FILE REFERENCE: P-PH 3457  
 / CURRENT APPLICATION NUMBER: US/10/291,808  
 / CURRENT FILING DATE: 2002-11-07  
 / PRIOR APPLICATION NUMBER: US/09/300,958  
 / PRIOR FILING DATE: 1999-04-27  
 / PRIOR APPLICATION NUMBER: 60/083,331  
 / PRIOR FILING DATE: 1998-04-27  
 / PRIOR APPLICATION NUMBER: 60/098,070  
 / PRIOR FILING DATE: 1998-08-27  
 / PRIOR APPLICATION NUMBER: 60/118,624  
 / PRIOR FILING DATE: 1999-02-04  
 / NUMBER OF SEQ ID NOS: 85  
 / SOFTWARE: PatentIn Ver. 2.0  
 / SEQ ID NO 27  
 / LENGTH: 1907  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / US-10-291-808-27

Alignment Scores:  
 Pred. No.: 4,45e-219 Length: 1907  
 Score: 1980.00 Matches: 371  
 Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 15 Gaps: 0

US-08-978-217-2 (1-371) x US-10-291-808-27 (1-1907)

QY 1 MetalAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20  
 DB ATGGCTGCAACCTGTAGATTACCACTTTTAGCACTTCACTGAGTGAAGC 155

QY 21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGluAlaAspAspLeu 40  
 DB TCGAGAGACTCCACCTGGCTCTGTCTCCCTGCTGCGACCTTGGGGCGGATGACTTG 215

QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluValAlaSerTrpLeu 60  
 DB GTAACCACTGAGCAACCCCGAATGTCATTGAGAGGTACAGAGAGGCGACCTGGTTG 275

QY 61 GlyGluGlnProGlnPheTrpSerTyrThrGlnValLeuAspTrpIleSerTyrGlnVal 80  
 DB GGGGAAACAGCCCGATTTCTGTGTGAAGACGCAAGTTCTGACATGATCAAGTG 335

QY 81 GlyValAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 DB GAGAGAAACAAGTACGACGCAAGCCGCACTTCTCAAGATGTGACATGATGGGCGC 395

QY 101 ThrLeuCyAsnCyValAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 DB ACCCTCTGCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGCTTGGGGGACCA 455

QY 121 LeuHISAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
 DB CTCACATGCCAGCTGCGAGACCTCACTTCAAGCTCTTCTGATAGCTCAAGTTGATCATT 515

QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160  
 DB GAGCTGCTGAGAGAGATGCGCTTCTCAAGAGGCGCTTACAGCCGAGGCGCTTTGAC 575

QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
 DB CAGGGGAGCGCCCTTGTGCGAGAGCTGTGAGAGCGTCAAGAGCGACCGCCCTTACAC 635

QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200  
 DB CCGGAGAGCTGTGCGAGAGAGGCGCCCTTCTGCGAGCTTCAAGCTTCTCAAGCAGAG 635

QY 201 ThrGlyAlaSerArgSerSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
 DB ACTGGTCTTCTCGAGAGCTCCACTCTCAGACTCCGCTGGAAGTACCGTGAAGCTGGAT 755

QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysValLysGlyAspPro 240  
 DB CCCACATGAGTGGCAAGCTCTTCCCGAGGATGTGTTTCTGTCATGCAAGAGGGGGATCCC 815

QY 241 LysHISGlyValArgLysArgGlyValArgProArgLysLeuSerLysGlnTyrTrpAspCys 260  
 DB AACGACGGGAGAGGAGAAACGAGCGGCGCCCGAAGCTTGAACAGATCTGGAGACTGT 875

QY 261 LeuGluGlyLysLysSerLysHISAlaProArgGlyThrHisLeuTrpGluPheIleArg 280  
 DB CTGAGAGGAGAAAGAGCAAGCAAGCGGCCAGAGGCAACCACTGTGGAGTTCAATCCGG 935

QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300  
 DB GACATCTCTCAACCAAGGAGCTTCAAGAGGCGCTCAAGAGTGGGGAATCCGGCATGAA 995

QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 320  
 DB GGGGCTTCAAGTTCTCGCGCTCCGAGGCTGTGGCCCAATGAGGCGCAAAAGAAAAG 1055

QY 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 340  
 DB AACGAGAACTGACCTTACGAGAGCTGAGCGGGCGCATGAGGTACTCAAAACGGGAG 1115

QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 360  
 DB ATCTCGAAGCGGTGGATGGCGGACCTGCTCAAGATTGGCAAAACTCAAGCGGC 1175

QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
 DB TGGAGAGAGAGAGGTTCTCCAGAGTCGAGAC 1208

RESULT 3  
 US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; TITLE OF INVENTION: Sets  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964, 824A  
 ; PRIOR FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236, 033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236, 032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236, 028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-964-824A-101

Alignment Scores:  
 Pred. No.: 4,47e-219 Length: 1915  
 Score: 1980.00 Matches: 371  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-964-824A-101 (1-1915)

QY 1 MetalAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20  
 DB ATGGCTGCAACCTGTAGATTACCACTTTTAGCACTTCACTGAGTGAAGC 179

QY 21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyValAspAspLeu 40  
 DB TCGAGAGACTCCACCTGGCTCTGTCTCCCTGCTGCGACCTTGGGGCGGATGACTTG 239

QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluValAlaSerTrpLeu 60  
 DB GTAACCACTGAGCAACCCCGAATGTCATTGAGAGGTACAGAGAGGCGACCTGGTTG 299

QY 61 GlyGluGlnProGlnPheTrpSerTyrThrGlnValLeuAspTrpIleSerTyrGlnVal 80  
 DB GGGGAAACAGCCCGATTTCTGTGTGAAGACGCAAGTTCTGACATGATCAAGTG 359

QY 81 GlyValAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 DB GAGAGAAACAAGTACGACGCAAGCCGCACTTCTCAAGATGTGACATGATGGGCGC 419

QY 101 ThrLeuCyAsnCyValAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 DB ACCCTCTGCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGCTTGGGGGACCA 479

QY 121 LeuHISAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
 DB CTCACATGCCAGCTGCGAGACCTCACTTCAAGCTCTTCTGATAGCTCAAGTTGATCATT 539

QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160

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Db      540 GACCTGCTGAGAGAGATGCGCTTCAGAGAGCCCTAGAGCCCGAGGCGCCCTTTGAC
Qy      161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis
Db      600 CAGGACAGCCCTTTGCTCCAGAGCTGCTGAGACCGGTACAGAGCCACCCCTTACAC
Qy      181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly
Db      660 CCGGAGAGCTGTGGCGGAGAGCCCTCCCTCGGAGCTGTGACGTCTCCACCGGAGG
Qy      201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp
Db      720 ACTGAGCTCTCTCGAGCTCCCACTCTCGAGCTCCCGTGAAGTACGTGAGCTGGAT
Qy      221 ProThrAspGlyLeuLeuPheProSerAspGlyPheArgAspCysGlySerGlyAspPro
Db      780 CCACTGATGGCAAGCTCTTCCCGAGGATGTTTCTGACTGCAAGAGGGGATCC
Qy      241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTrpAspCys
Db      840 AAGCAGCGGAAAGGAAACGAGGCGGCGCCGAAAGCTGACAAAGATCTGGAGCTGT
Qy      261 LeuGlnGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrGlnPheLeuArg
Db      900 CTCGAGGGCAAGAGAGCAAGCAGCGCCGAGAGGCCACCTGTGGAGTTCACTCCGG
Qy      281 AspGlyLeuLeuHisAspProGluLeuAsnGlyGlyLeuMetLysTrpGluAsnArgHisGlu
Db      960 GACATCTCATCCACCGGAGCTCAACGAGGCTCAAGAGTGGAGAAATCGCATGAA
Qy      301 GlyValPheLysPheLeuArgSerGlyAlaValAlaGlnLeuTyrGlnLysLysLys
Db      1020 GGGGTCTTCAAGTTTCCTGGCTCGAGGCTCGAGGCTGTGGCCCACTATGGGCGCAAAAAG
Qy      321 AsnSerAsnMetThrTyrGlyLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu
Db      1080 AACAGCAACATGACCTTACGAGAACTGAGCGGGCCATGAGTACTACTCAACACGGGAG
Qy      341 IleLeuGlnArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly
Db      1140 ATCTTGAACTGGGTGATGCGCGGCACTGTCTCAAGATTGGCAAAACTCAAGCGGC
Qy      361 TrpLysGlnGlnGluValLeuGlnSerArgAsn
Db      1200 TCGAAGAGGAGAGGTTCTCCAGAGTCGGAAC
RESULT 4
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964, 824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236, 032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236, 032
; PRIOR FILING DATE: 2000-09-28
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

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Pred. No.: 4,47e-219 Length: 1915
Score: 1980.00 Matches: 371
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
US-08-978-217-2 (1-371) x US-09-964-824A-563 (1-1915)
Qy      1 MetAlaAlaThrCysGlnLysSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer
Db      120 ATGGCTGCAACCTGTAGATTAGCAACATTTTAGCACTACTGATCGATGTRCACG
Qy      21 SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyAlaAspLeu
Db      180 TCGAGAGACTCCACCTTGCGCTGTGTTCCCGCTGCGCACCTTTGGGCGCATGCTTG
Qy      41 ValLeuThrLeuSerAsnProGlnMetSerLeuGlnGlyThrGlyLysAlaSerTrpLeu
Db      240 GTACTGACCTTGAGCAACCCCGAGATGTCATTGGAGGATACAGAGAGGCGCAGCTGGTGG
Qy      61 GlyGlnGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysTyrGlnVal
Db      300 GGGAAACAGCCCGCAGTTCGTGTCGAGAGCCAGTTCTGATCGATCGATCCAGAG
Qy      81 GlyLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla
Db      360 GAGAAACAGACAGACAGCCAGCCGATTTGACTTCAAGATGTCATGATGAGCGGCC
Qy      101 ThrLeuCysAsnCysAlaLeuGlnGluLeuValPheGlyProLeuGlyAspGln
Db      420 ACCCTCTGCAATTTGTGCCCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGGACCA
Qy      121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGlyLeuSerTrpIleLe
Db      480 CTCATGCCAGCTGGAGAGCTCACTTCAAGCTCTTCTGATGAGCTCAGTTGGATATT
Qy      141 GlnLeuLeuGlnLysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAsp
Db      540 GAGCTCTGAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCAAGCGCCCTTTGAC
Qy      161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis
Db      600 CAGGAGAGCCCTTTGGCCAGAGCTGTGACGAGCGTCAACAGCCAGCCCTTACAC
Qy      181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly
Db      660 CCGGAGAGCTGTGGCGGAGAGCCCTCCCTGGAGCTGTGACGTCTCCACCGGAGG
Qy      201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp
Db      720 ACTGGTCTTCTCGAGCTCCCACTCTCGAGCTCGGAGTGAAGTACGTGAGACCTGAGT
Qy      221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysGlySerGlyAspPro
Db      780 CCACTGATGGCAAGCTCTTCCCGAGGATGTTTCTGACTGCAAGAGGGGATCC
Qy      241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTrpAspCys
Db      840 AAGCAGCGGAAAGGAAACGAGGCGGCGCCGAAAGCTGACAAAGATCTGGAGCTGT
Qy      261 LeuGlnGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrGlnPheLeuArg
Db      900 CTCGAGGGCAAGAGAGCAAGCAGCGCCGAGAGGACCACTGTGGGAGTTCACTCCGG
Qy      281 AspGlyLeuLeuHisAspProGluLeuAsnGlyGlyLeuMetLysTrpGluAsnArgHisGlu
Db      960 GACATCTCATCCACCGGAGCTCAACGAGGCTCATGATGAGAGATGAGATGCGATGAA
Qy      301 GlyValPheLysPheLeuArgSerGlyAlaValAlaGlnLeuTyrGlnLysLysLys
Db      1020 GGGGTCTTCAAGTTTCCTGGCTCGAGGCTCGAGGCTGTGGCCCACTATGGGCGCAAAAAG

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Alignment Scores:

Oy	321	AenseArAmEtThTyGluLySeArGaLaMeArGTYrTYrLYsArGlu	340
Db	1080	AAACACACATACCTACGAGAAAGCTGACCGGCGCATAGAGTACTACACAAACGGAG	113
Oy	341	lIleuGluArVaLaSpGlyArGaRgLeuValTYrLYsPheGlyLYsAnSeSerGly	360
Db	1140	ATCTCGAAACGGGTGGATGGCCGGCGACTCGTCTCAAGATTGGCAAAAACCTCAAGCGGC	119
Oy	361	TrpLYsGluGluGluValleuGlnSeArGaAn	371
Db	1200	TGGAAGAGAGAAAGAGTTCTCCAGAGTCCGAAC	1232
RESULT 5			
US-09-880-107-3420			
Sequence 3420, Application US/09880107			
Patent No. US20020142981A1			
GENERAL INFORMATION:			
APPLICANT: Horne, Darci T.			
APPLICANT: Vockley, Joseph G.			
APPLICANT: Scherf, Uwe			
APPLICANT: Gene Logic, Inc.			
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer			
FILE REFERENCE: 44921-5028-WO			
CURRENT APPLICATION NUMBER: US/09/880,107			
CURRENT FILING DATE: 2001-06-14			
PRIOR APPLICATION NUMBER: US 60/211,379			
PRIOR FILING DATE: 2000-06-14			
PRIOR APPLICATION NUMBER: US 60/237,054			
PRIOR FILING DATE: 2000-10-02			
NUMBER OF SEQ ID NOS: 3950			
SOFTWARE: PatentIn Ver. 2.1			
SEQ ID NO 3420			
LENGTH: 1915			
TYPE: DNA			
ORGANISM: Homo sapiens			
FEATURE:			
OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843			
US-09-880-107-3420			
Alignment Scores:			
Pred. No.: 4,47e-219			
Score: 1980.00			
Percent Similarity: 100.00%			
Best Local Similarity: 100.00%			
Query Match: 100.00%			
DB: 9 Gaps: 0			
US-08-978-217-2 (1-371) x US-09-880-107-3420 (1-1915)			
Oy	1	MetalAlaThThCyGluLrIeSerAniIlePheSerAsTyRrPheSerAlaMeTYrSer	20
Db	120	ATGGCTGCACCTGTGAGATTAGCAACATTTTACGACACTACTTCAGTGGATGAC	179
Oy	21	SerGluAspSerThrLeuAlaSerValProProAlaAlaThrPheGlyAlaAspLeu	40
Db	180	TCGGAGGACTCCACCTGGCTCTGTCTCCCTGTCGCACTTTGGGGCCATGACTTG	239
Oy	41	ValleuThrLeuSerAsmProGlnMetSerLeuGluGlyThrGluLYsAlaSerTrpLeu	60
Db	240	GTACTGACCTTGAGCAACCCCAAGATGATGGAGGGATCAAGAAAGCCACGCTGGT	299
Oy	61	GlyGluGlnProGlnPheTrpSerLYsThrGlnValleuAspTrpIleSerTYrGlnVal	80
Db	300	GGGGAACACCCCAAGTTCGTGTGAAAGACGCAAGTCTTGACCTGATCAGCTACCAAGT	359
Oy	81	GluLYsAsmLYsTYrAspAlaSerAlaIleAspPheSerArGYSAspMetAspGlyAla	100
Db	360	GAGAAAGAACAACTACGACCAAGCCGCAATGACTTCAAGATGTACATGATGGCGCC	419
Oy	101	ThrLeuCYsAsnCYsAlaLeuGluGluLeuArGLeuValPheGlyProLeuGlyAspGln	120
Db	420	ACCTCTGTGAATGTGCCCTTAGGAGGCTGCGCTGTGAGGCTCTGGGGGACCA	479

QY	121	LeuHsaiaglnLeuArgbLeuThrSerSerSerSerAspIleuSerTPIlele	140
Db	480	CTCATTGCCAGCTCGAGACCTCACTTCCAGCTCTTCGTATAGCTCACTTGATAT	539
QY	141	GlutLeuLeuGluIlyAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp	160
Db	540	GAGCTGCTGGAGAAAGATGGATGGCTTCCAGAGAGCCCTAGACCAGAGGCTTTGAC	599
QY	161	GlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis	180
Db	600	CAGGCGACGCCCCCTTTGGCCAGAGAGCTGTGACGAGCGAGCGAGCAAGCCACCCCTTACAC	659
QY	181	ProGlySerCybGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly	200
Db	660	CCGGCAGCTGTGGCGCAGAGACCCCTTCCCTGGAGAGCTTCAAGCTTCCACCGCAGGG	719
QY	201	ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp	220
Db	720	ACTGTGTGCTTCTGGAGGCTCCCACTCTTCAGACTCCGGTGGAGATGACGAGACTGGAT	779
QY	221	ProThrAspGlyIlyLeuLeuPheProSerAspGlyPheArgAspCybIlybIlybGlyAspPro	240
Db	780	CCCACTGTATGGCAACCTCTTCCCGCAGCGATGGTTTCGTGATCGCAAGAGGGGGGATCCC	839
QY	241	LysHsaiGlyIlybArgIlybArgGlyIlyArgProArgIlybLeuSerIlybGlyIlyTyrTPAspCys	260
Db	840	AAGCAGCGGAGCGGAGAAAGAGAGCGGCCCCGAGAACTGAGCAAGATGACTGGAGCTGT	899
QY	261	LeuGlnGlyIlybIlySerSerIlyHisAlaProArgGlyThrHisLeuTyrGluPheIleArg	280
Db	900	CTCGAGGGCGAAGAAAGACAGACACGGCCCCAGAGGACCCACCTGTGGAGATTCAATCCGG	959
QY	281	AspIleLeuIleHisProGlnLeuLeuGlnGlyIlyLeuMetIlybTyrGluAsnArgHisGlu	300
Db	960	GACATCTCATCAACCCGAGAGCTCAACGAGGCGCTCATGAAAGTGGGAGAAATCCGCAAGAA	1019
QY	301	GlyValPheIlybPheLeuArgSerGluIlyAlaAlaGlnLeuTyrGlyIlybIlybIlyb	320
Db	1020	GCGGCTTCAAACTTCTCTGGCTCCGAGGCTGTGGCCCACTAATGGGGCCCAAGAAAG	1079
QY	321	AsnSerAsnMetThrTyrGlnIlybLeuSerArgAlaMetArgTyrTyrTyrIlybArgGlu	340
Db	1080	AACAGCAACATGACCTACAGAAAGCTGAGCCGGGCCATGAGATCACTACAAAGCGGAG	1139
QY	341	IleLeuGlnArgValAspGlyIlyArgArgLeuValTyrIlybPheGlyIlybAsnSerSerGly	360
Db	1140	ATCTCGAAACGGGTGGATGGCGGCGACCTCGTCTCAAAAGTTGGCAAAAACCTCAAGCGGC	1199
QY	361	TrpIlybGlnGlnGlnValLeuGlnSerArgAsn	371
Db	1200	TGGAGAGAGAAAGAGGTTCTCCAGAGTCGGAAC	1232

RESULT 6  
US-09-967-768A-192  
; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatures  
; FIDE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; LENGTH: 1915

TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-967-768A-192

## Alignment Scores:

Pred. No.:	4,47e-219	Length:	1915
Score:	1980.00	Matches:	371
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
	9	Gaps:	0

US-08-978-217-2 (1-371) x US-09-967-768A-192 (1-1915)

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QY 1 MetAlaAlaThrcysglulleserAnllepheserAntyrPheserAlaMetTySer 20
Db 120 ATGGCTGCAACCTGTGAGATTAGCAACATTTTACCACTTCACTGAGTGAAGC 179
QY 21 SerGluAspSerThrleuAlaSerValProProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 180 TCGGAGACTCCACCCCTGGCTCTGTCTCCCTGCTCCACCTTTGGGGCCGATGACTTG 239
QY 41 ValLeuThrleuSerAnpProGlnmetSerleuGluGlyThrGluValAspAspLeu 60
Db 240 GTACTGACCTTGAGCAACCCCAAGATGTCATGAGGGTACAGAGAGCCAGCTGGTTG 239
QY 61 GlyGluGlnProGlnPheTrpSerTyThrGlnValLeuAspTrpIleSerTyrglnVal 80
Db 300 GGGGAACAGCCCAAGTTCTGTGGAAGACGACAGTTTGACAGTGTGACATGATGGGCC 359
QY 81 GluLysAsnLysTyrrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
Db 360 GAGAGAACCAAGTACGACGCAAGGCCATTCATTCACAGATGTGACATGATGGGCC 419
QY 101 ThrleuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProleuGlyAspGln 120
Db 420 ACCCTCTGCATTTGCTTGTGAGAGCTGCTGTGCTTTGGGCTCTGGGGAGACCA 479
QY 121 LeuHisAlaGlnleuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIle 140
Db 480 CTCATGACCCAGCTGGAGACCTTCATCTCAGCTCTTCTGATGAGCTCACTTGATCAT 539
QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
Db 540 GACCTGTGAGAGAGATGCGATGCGCTTCAGAGAGCCCTAGACCCAGGCCCTTTGAC 599
QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnIleAspProTyrrHis 180
Db 600 CAGGGAGCCCTTTGCCAGAGCTGCTGAGACGCTGACAGCAAGCCACCCCTTACAC 659
QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200
Db 660 CCGGGAGCTGTGGCGGAGAGGCCCTCCCTCGGAGAGCTGACGCTCTCACCGGAGGG 719
QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220
Db 720 ACTGGTGTCTCTCGAGCTCCCACTCTCAGACTCCCGTGAAGTGACTGTGACCTGGAT 779
QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheAspAspCysLysLysGlyAspPro 240
Db 780 CCCACTGATGGCAAGCTCTTCCCGAGAGTGTCTTGTGACTGCAAGAGGGGATCCC 839
QY 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpAspCys 260
Db 840 AACGACGGAGAGGAGAAAGAGGGCCGCCGAAAGCTGAGCAAAAGGATCTGGGACTGT 899
QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280
Db 900 CTCGAGGGGCAAGAGCAAGCAAGCGCCCAAGAGGCAACCACTGTGGAGTTTCACTCCGG 959
QY 281 AsnGlyLeuLeuHisAspProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300
Db 960 GACATCTCTATCCACCCGGAGCTCAAGAGGGCTCATGAAAGTGGAGAAATCGGCAATGAA 1019

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QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlyLysLys 320
Db 1020 GGGCTCTCAAGTCTCGGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAAG 1079
QY 321 AsnSerAsnMetThrTyrrGluLysLeuSerArgAlaMetArgTyrrTyrrLysArgGlu 340
Db 1080 AACAGCAACATGATCCTTACAGAGAGCTGAGCCCGGGCCATAGGTACTTACAAACCGGGAG 1139
QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyrrLysPheGlyLysAsnSerSerGly 360
Db 1140 ATCTTGAAACGGGTGATGGCGGCACTGCTTCAAACTTTGGCAAAACTTAAGCGGC 1199
QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371
Db 1200 TGGAAAGAGAGAGAGGTTCTCCAGAGTCGGAAC 1232

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## RESULT 7

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US-09-922-217-1105
/ Sequence 1105, Application US/09922217
/ Patent No. US2002007641A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Secrist, Heather
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Meagher, Madeline Joy
/ APPLICANT: Stolk, John A.
/ APPLICANT: Wang, Tongrong
/ APPLICANT: Jiang, Yuguang
/ APPLICANT: Smith, Carole Lynn
/ APPLICANT: King, Gordon E.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Clapper, Jonathan D.
/ TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
/ TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
/ FILE REFERENCE: 210121.471C13
/ CURRENT APPLICATION NUMBER: US/09/922, 217
/ NUMBER OF SEQ ID NOS: 1124
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1105
/ LENGTH: 1917
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-922-217-1105

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## Alignment Scores:

Pred. No.:	4,48e-219	Length:	1917
Score:	1980.00	Matches:	371
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
	9	Gaps:	0

US-08-978-217-2 (1-371) x US-09-922-217-1105 (1-1917)

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QY 1 MetAlaAlaThrcysglulleserAnllepheserAntyrPheserAlaMetTySer 20
Db 122 ATGGCTGCAACCTGTGAGATTAGCAACATTTTACCACTTCACTGAGTGAAGC 181
QY 21 SerGluAspSerThrleuAlaSerValProProAlaAlaThrPheGlyAlaAspAspLeu 40
Db 182 TCGGAGACTCCACCCCTGGCTCTGTCTCCCTGCTCCACCTTTGGGGCCGATGACTTG 241
QY 41 ValLeuThrleuSerAnpProGlnmetSerleuGluGlyThrGluValAspAspLeu 60
Db 242 GTACTGACCTTGAGCAACCCCAAGATGTCATGAGGGTACAGAGAGCCAGCTGGTTG 301
QY 61 GlyGluGlnProGlnPheTrpSerTyThrGlnValLeuAspTrpIleSerTyrglnVal 80
Db 302 GGGGAACAGCCCAAGTTCTGTGTAAGACGACAGTTTGTGACTGATCACTACCAAGTG 361

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QY 81 GtlyAsnlyeTyAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
DB 362 GAGAAGAAAGTACAGACCCGAGCGCATTTGACTTCAAGAGTACATGATGGCGGC 421
QY 101 ThrLeuCyAsnCyAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
DB 422 ACCCTCTGCAATTGTCTCCCTTGAGGAGCTGCGCTCTGTTGGGCTCTGGGGGACCA 481
QY 121 LeuHisAlaGluLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140
DB 482 CTCACATGCCAGCTGGAGACCTCACTTCTGATGATGCTCACTGATGATCAT 541
QY 141 GluLeuLeuGluGluAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
DB 542 GAGCTGCTGGAAGAGATGGCATGGCTTCCAGAGAGCCCTAGACCCAGGGCCCTTGGAC 601
QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180
DB 602 CAGGGCAGCCCTTTGCCCCAGAGAGCTGTGAGACGAGCTACAGCAAGCCACCCCTACAC 661
QY 181 ProGlySerCyGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200
DB 662 CCGGAGAGCTGTGGCCAGAGAGCCCTCCCTCGGAGCTTGAACCTTCCACCGAGGG 721
QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValaAspLeuAsp 220
DB 722 ACTGAGCTTCTCTCGAGCTCCCACTCTCAAGTCCGGTGGAGAGTACGTGACCTGGAT 781
QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240
DB 782 CCACTGATGGAGAGCTTTCCCAAGAGATGTTTCTGATGATGATGATGATGATGATGAT 841
QY 241 LysHisGlyLysArgLysArgLysArgProArgLysLeuSerLysGlyTyrTrpAspCys 260
DB 842 AAGCAGAGGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 901
QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280
DB 902 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 961
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGly 300
DB 962 GACATCTCATCAACCCGAGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1021
QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 320
DB 1022 GGGCTTTCAGAGTCTCTGCGCTCCGAGGCTGTGGGCCCACTATGGGGCCCAAGAAAG 1081
QY 321 AsnSerAsnMetThrTyrGlyLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 340
DB 1082 AACAGCAACATGACCTACAGAGAGCTGAGCGGGCCCATGATGATCAACAACGGAG 1141
QY 341 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 360
DB 1142 ATCTCTGGAACGGGTGATGGCCGCGCATCTGTCTACAGATTGGCAAAAACCTCAAGCGGC 1201
QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371
DB 1202 TGGAGAGAGAGAGAGAGTCTCTCAAGAGCTCGAGAC 1234

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```

; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skelky, Yahir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025.380
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1105

Alignment Scores:
Pred. No.: 4,48e-219 Length: 1917
Score: 1980.00 Matches: 371
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Gaps: 0
DB: 13

US-08-978-217-2 (1-371) x US-10-025-380-1105 (1-1917)
QY 1 MetAlaAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20
DB 122 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCACTTCTCACTGATGATGATGATGAT 181
QY 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40
DB 182 TGGAGAGATCCACCTGAGCTCTGTGCTCCCTGCTGAGAGAGAGAGAGAGAGAGAGAG 241
QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60
DB 242 GATCTGACCTTCAAGCAACCCCAAGATGTCATTGAGAGAGAGAGAGAGAGAGAGAGAG 301
QY 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTrpGlnVal 80
DB 302 GGGAGAACAGCCCAAGTCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 361
QY 81 GtlyAsnlyeTyAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100
DB 362 GAGAAGAAAGTACAGACCCGAGCGCATTTGACTTCAAGAGTACATGATGGCGGC 421
QY 101 ThrLeuCyAsnCyAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120
DB 422 ACCCTCTGCAATTGTCTCCCTTGAGGAGCTGCGCTCTGTTGGGCTCTGGGGGACCA 481
QY 121 LeuHisAlaGluLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140
DB 482 CTCACATGCCAGCTGGAGACCTCACTTCTGATGATGCTCACTGATGATCAT 541
QY 141 GluLeuLeuGluGluAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160
DB 542 GAGCTGCTGGAAGAGATGGCATGGCTTCCAGAGAGCCCTAGACCCAGGGCCCTTGGAC 601
QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180
DB 602 CAGGGCAGCCCTTTGCCCCAGAGAGCTGTGAGACGAGCTACAGCAAGCCACCCCTACAC 661
QY 181 ProGlySerCyGlyAlaGlyAlaProSerProGlySerSerAspValaAspLeuAsp 200
DB 662 CCGGAGAGCTGTGGCCAGAGAGCCCTCCCTCGGAGCTTGAACCTTCCACCGAGGG 721
QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValaAspLeuAsp 220

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Db 722 ACTGTCCTTCTCGAGCTCCCACTCTCTCAGACTCCCGTGGAAGTGAAGTGAAGCTGGAT 781  
QY 221 ProThraspGlyLeuPheProSerAspGlyPheArgAspCysIleValAspPro 240  
Db 782 CCACACTGATGGCAAGCTCTTCCCAAGGATGGTTTGTGATCTGCAAGAAAGGGGATCCC 841  
QY 241 LysHISGlyValArgGlyValArgProArgGlyLeuSerIleValTrpAspCys 260  
Db 842 AACGACGGGAAAGGCAAGCAAGGCGCGCCGCAAGAGCTGAGCAAGAGTACTGGGACTGT 901  
QY 261 LeuGluGlyLeuValSerIleValAspArgGlyThrHisIleValTrpGluPheIleArg 280  
Db 902 CTGAGAGGCAAGAAAGCAAGCAAGCGCCCAAGAGCAAGCAAGCTGTGGAGTTCAATCCG 961  
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetIleTrpGluAsnArgHisGlu 300  
Db 962 GACATCTCTCAACCCGAGGCTCAACGAGGCTCATGAAAGTGGGAAATGGCATGAA 1021  
QY 301 GlyValPheLeuPheLeuArgSerGlyValValAlaGluLeuTrpGlyGlnIleValVal 320  
Db 1022 GCGGCTTCAAGTCTCGCGCTCCGAGGCTGTGGCCCACTATGGGGCCCAAGAAAG 1081  
QY 321 AsnSerAspMetThrTrpGlyValLeuSerArgAlaMetArgTrpTrpTrpValArgGlu 340  
Db 1082 AACGACAACTGACCTACGAGAAAGCTGAGCCGGCCATGAGTACTACAAACGGAG 1141  
QY 341 IleLeuGluValArgValAspGlyArgArgLeuValTrpValPheGlyIleValAsnSerGly 360  
Db 1142 ATCTGGAACGGGTGATGGCCGCGCATCTGTCTACAAAGTTTGCAAAAACCAAGCGGC 1201  
QY 361 TrpValGluGluGluValLeuGluIleValAsnArgAsn 371  
Db 1202 TGGAAAGAGAGAAAGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 9  
US-10-264-049-756  
; Sequence 756, Application US/10264049  
; Publication No. US2004000579A1  
; GENERAL INFORMATION:  
; APPLICANT: Birtse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA133P1  
; CURRENT APPLICATION NUMBER: US/10/264, 049  
; PRIOR FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/18569  
; PRIOR FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: US 60/209,467  
; NUMBER OF SEQ ID NOS: 4360  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 756  
; LENGTH: 1956  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-264-049-756

Alignment Scores:  
Pred. No.: 4,61e-219 Length: 1956  
Score: 1980.00 Matches: 371  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 16 Gaps: 0

US-08-978-217-2 (1-371) x US-10-264-049-756 (1-1956)

QY 1 MetAlaAlaThrCysGluIleSerAsnIlePheSerAsnTrpPheSerAlaMetTrpSer 20  
Db 161 ATGGCTGCAACCTGATGATTAACAAATTATTAGCAACTTCACTGAGTGAATGACAGC 220  
QY 21 SerGluAspSerThrIleuIleAspValProProAlaAlaThrPheGlyIleValAspAla 40  
Db 221 TCGGAGGACTCCACCCCTGGCTCTGTTCCTCCCTGCTGCCACTTTTGGGGCGGATGACTTG 280

QY 41 ValIleuThrLeuSerAsnProGluIleMetSerLeuGluGlyThrGluValAlaSerTrpLeu 60  
Db 281 GACTGACCTGAGCAACCCCAAGATGCTATTGAGGGGTACAGAGAAAGGCGACTGGTTG 340  
QY 61 GlyIleGluIleProGluIlePheTrpSerIleThrGluValIleAspTrpIleSerTrpGluVal 80  
Db 341 GGGGAACACCCCAAGTTCGTGTGAAAGCAGAGTTCTGAGCTGATGATCAAGTCAAGT 400  
QY 81 GluValAsnIleValTrpAspAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
Db 401 GAGAAACAAGTACGACCAAGCCCAAGCTTGAATCTTCAAGATGACATGATGAGCGCC 460  
QY 101 ThrLeuCysAsnGlyAlaLeuGluIleuValArgLeuValPheGlyProLeuGlyAspGlu 120  
Db 461 ACCCTGCAATTTGTCTTGTGAGAGCTGCTGTGTCTTGTGGGCTCTGGGGGACCA 520  
QY 121 ThrLeuAlaGluLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
Db 521 CTCCATGCCACCTGAGACCTCACTTCACCTCTTGAATGAGCTCAATTGATCAT 580  
QY 141 GluLeuLeuGluValAspGlyMetAlaPheGluGluAlaLeuAspProGlyProPheAsp 160  
Db 581 GAGCTGCTGAGAAAGATGGCATGGCTTCCAGAGAGCCCTTGAAGCCAGGCGCTTTGAC 640  
QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGluAlaSerProTrpHis 180  
Db 641 CAGGGAGCCCTTTTGCCAGAGAGCTGTGAGACAGAGCTGACAAAGCCAGCCCTTACAC 700  
QY 181 ProGlySerCysGlyValAlaValAlaProSerProGlySerSerAspValSerThrAlaGly 200  
Db 701 CCGGAGAGCTGTGGCCAGAGAGCCCTTCCCTCCCTGAGCTGAGCTCCACCGAGGG 760  
QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyIleSerAspValAspLeuAsp 220  
Db 761 ACTGTCCTTCTCGAGCTCCCACTCTCAAGCTCCGGTGAAGTACCTGATCTGAT 820  
QY 221 ProThraspGlyValLeuPheProSerAspGlyPheArgAspCysIleValAspPro 240  
Db 821 CCACACTGATGGCAAGGCTTCCCAAGCGATGGTTTCCGATCTGCAAGAAAGGGGATCCC 880  
QY 241 LysHISGlyValArgGlyValArgProArgGlyLeuSerIleValTrpAspCys 260  
Db 881 AACGACGGGAAAGGCAAGCAAGGCGCGCCCAAGAGCTGAGCAAGAAAGTGGAGCTGT 940  
QY 261 LeuGluGlyValSerIleHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280  
Db 941 CTGAGAGGCAAGAAAGCAAGCAAGCGCCCAAGGCAAGCAAGCTGTGGAGTTCAATCCG 1000  
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetIleTrpGluAsnArgHisGlu 300  
Db 1001 GACATCTCTCAACCCGAGGCTTAAACGAGGCTGTATGAATGGAGAAATCGGCATGAA 1060  
QY 301 GlyValPheLeuPheLeuArgSerGlyValValAlaGluLeuTrpGlyGlnIleValVal 320  
Db 1061 GCGGCTTCAAGTCTCTGGTGTCCAGAGCTGTGGCCCACTATGGGGCCCAAGAAAG 1120  
QY 321 AsnSerAspMetThrTrpGluValLeuSerArgAlaMetArgTrpTrpTrpValArgGlu 340  
Db 1121 AACGACAACTAAGCTACGAGAAAGCTGAGCCGGCCATGAGTACTACAAACGGAG 1180  
QY 341 IleLeuGluValArgValAspGlyArgArgLeuValTrpValPheGlyIleValAsnSerGly 360  
Db 1181 ATCTGGAACGGGTGATGGCCGCGCATCTGTCTCAAGATTGGCAAAAACCAAGCGGC 1240

RESULT 10  
US-09-925-301-207  
; Sequence 207, Application US/09925301  
; Patent No. US20020052308A1



GENERAL INFORMATION:			
APPLICANT:	Rosen et al.		
TITLE OR INVENTION:	Nucleic Acids, Proteins and Antipodites		
FILE REFERENCE:	PA106		
CURRENT APPLICATION NUMBER:	US/09/925.301		
CURRENT FILING DATE:	2001-08-10		
PRIOR APPLICATION NUMBER:	PCT/US00/05882		
PRIOR FILING DATE:	2000-03-08		
PRIOR APPLICATION NUMBER:	60/124,270		
PRIOR FILING DATE:	1999-03-12		
NUMBER OF SEQ ID NOS:	1694		
SOFTWARE:	Patentin Ver. 2.0		
SEQ ID NO:	207		
LENGTH:	1996		
TYPE:	DNA		
ORGANISM:	Homo sapiens		
US-09-925-301-207			
Alignment Scores:			
Pred. NO.:	4.74e-219	Length:	1996
Score:	1980.00	Matches:	371
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0
US-08-978-217-2 (1-371) x US-09-925-301-207 (1-1996)			
Qy	1	MetaAaIaIaThrCySeGuljEsSerAnIlePheSeAsnTyPheSeSerAlaMetYSer	20
Db	141	ATGGGTGCACCTGTGAGATTGCAACATTTTACAACTACTCTCAGTGCAGTGCACG	200
Qy	21	SerGiuaPseSerThrlEuAlaSerValProProAlaIaIaTh-PheGlyAlaAspAspLeu	40
Db	201	TGGAGGAGCTCCACCTGGCTCTGTCTCCCTGCTGCACCTTTGGGCGCATGACTTG	260
Qy	41	ValLeuThrlLeuSerAsnProGlnMetSerLeuGlnGlyThrGlnGlyAlaSerTrrLeu	60
Db	261	GTACTGACCCCTGAGGAAACCCCGATGTCATTGGAGGGGACAGAGAGGCGACCTGGTG	320
Qy	61	GlyGlnGlnProGlnPheTrpSerIysThrGlnValLeuAspTrpIleSerTyrglnVal	80
Db	321	GGGGACAGCCCACTTCTGGTGCAGAGACCGAGTTCTTGACTGATCAGTCCAGTCC	380
Qy	81	GluIysAsnIyTyTyAspAlaSerAlaIleAspPheSerArgCyAspMetAspGlyAla	100
Db	381	GAGAAAGAACATGACGAGCAAGCCGACATTGACTTCCAGATGATGACATGATGGCGCC	440
Qy	101	ThrLeuCyAsnCyAlaLeuGlnGluLeuArgLeuValPheGlyProLeuGlyAspGln	120
Db	441	ACCCCTCCCAATTGGCCCTTGAGGAGCGCTGTGGTCTTTGGGCGCTCTGGGGAGCAA	500
Qy	121	LeuHISAlaGlnLeuArgAspLeuPheTrpSerSerSerSerAspGluLeuSerTrpIle	140
Db	501	CTCAGTCCCACTGAGACCTCACCCTTCAGCTCTTCTGATGAGCTCAGTTGGATCAT	560
Qy	141	GluLeuLeuGluIyAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAsp	160
Db	561	GAGCTGCTGGAGAAAGATGGCATGGCTTCCAGAGAGCCCTAGACCAAGGCCCTTGGAC	620
Qy	161	GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyRHS	180
Db	621	CAGGGCAGACCCCTTTGCCAGAGGCTGCTGGACGAGGTGAGCAACCGCCCTTCCAC	680
Qy	181	ProGlySerCyGlyAlaGlyAlaProSerProGlySerSerAspAlaSerThrAlaGly	200
Db	681	CCGGGACGTGTGGGCGACAGGCCCTCCCTCCGAGGCTGTACGCTTCCACCGCAGGG	740
Qy	201	ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyIySerAspValaAspLeuAsp	220
Db	741	ACTGGTGTCTTCTCGGAGCTCCCACTCTCTCAGACTCCGGTGGAGATGACGTGACCTGGAT	800
Qy	221	ProThrAspGlyLyLeuLeuPheProSerAspGlyPheArgAspCyAlaGlyAspPro	240

QY	Db	Sequence	Length	Score	Percent Similarity	Best Local Similarity	Query Match	DB
801	CCGACTATGGCAAGCTCTTCCCAAGGATGGTTTCTGTGACTGCAGAAAGGGGGATCC	860						
241	LYSHISGLYLYSARGLYSARGGLYARGPROARGLYLEUSERLYSGIUTYTPASPCYS	260						
861	AAGCAGCGGAAAGCGGAAACGAGCGCCGCCCGGAAAGCTGAGCAAAAGTACTGGGACTGT	920						
261	LEUGLUGLYLYSGLYSARLYSHISALAIPROARGLYTHRHISLEAUTPGIUPHEILEARG	280						
921	CTCGAGGCGCAAGAAACACAGACGCGCCCGCAGAGGACCCACCTGTGGGACTTCACTCCGG	980						
281	ASPILEULEULEHISPROGLULEUASNGIUGLYLEUMETLYSTRPGIUNASARGHISGLU	300						
981	GACATCTCTCATCCACCCGGAGCTCAACAGGGGCTTATGAAGTGGAGAAATCGGCATGAA	1040						
301	GLYVALPHELYPHELEUARGSERGLUALAVAILAGLILEUTRPGIULNLYSGLYS	320						
1041	GGCCTCTTCAAGTTCCCTGCGCTCCGAGGCTGTGTGCCCAACTATGGGGCCCAAAACAAAAG	1100						
321	ANSEARSMETLTRYRGLIULYLYLEUSERARGIAMELARGYTRYTRYTRYLYSARGIUL	340						
1101	AACGCAACATGACCTTACGAGAACCTAGCGGGCCATGAGTACTACTACAAACGGGAG	1160						
341	ILEUGLUARGVALASPGLYARGARGLEUVALTYRILYSPHEGLYLYSASNSERSEGLY	360						
1161	ATCTCGAACCGGTGGATGGCCGGCCGACCTGCTACACAGTTTGGCAAAAATCTCAAGCGC	1220						
361	TRPLYSGIUGIUGIUALLEUGINSERARGASN	371						
1221	TGGAAGGAGGAAGAGTTCTTCACAGTCGGAAAC	1253						
US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64	US-10-131-410-64
Sequence 64, Application US/10131410	Publication No. US20030235915A1	GENERAL INFORMATION:	APPLICANT: SPEECH, THOMAS	APPLICANT: HINZMANN, BERND	APPLICANT: SCHMITT, ARMIN	APPLICANT: PILARSKY, CHRISTIAN	APPLICANT: DAHL, EDGAR	APPLICANT: ROSENTHAL, ANDRE
TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST	TITLE OF INVENTION: TUMORS	FILE REFERENCE: SCH-1763	CURRENT APPLICATION NUMBER: US/101/31, 410	CURRENT FILING DATE: 2002-04-25	PRIOR APPLICATION NUMBER: 09/646, 673	PRIOR FILING DATE: 2000-09-20	PRIOR APPLICATION NUMBER: PCT/DE99/00908	PRIOR FILING DATE: 1999-03-19
NUMBER OF SEQ ID NOS: 202	SOFTWARE: PatentIn Ver. 2.1	SEQ ID NO 64	LENGTH: 2269	TYPE: DNA	ORGANISM: Homo sapiens	US-10-131-410-64	Alignment Scores:	
Pred. No.:	3.6e-161	Length:	2269	Matches:	315	Conservative:	0	Mismatches:
Score:	1654.00	Matches:	315	Conservative:	0	Mismatches:	2	Indels:
Best Local Similarity:	99.37%	Mismatches:	2	Indels:	2	Gaps:	0	
Query Match:	83.54%	Gaps:	0					
DB:	15							
US-08-978-217-2 (1-371) x US-10-131-410-64 (1-2269)								
QY	55	GIULIYALASERTFPLEUGIYGLUGIINPROGINPHERTPSETLYSTRGINVALLEUASP	74					
Db	15	GAGAAAGCCAGACTGTGGGGGAAACAGCCCAAGTTCTGTGTAAGAG-CAGGTTCTGAC	73					

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QY 75 TPTPLSERTYGLNVALGIULYSAENLYETRTASPALASERLAILLEAPHPESERARG 94
DB 74 TGGATCAGCTACCAAGAGGAGAAACAACTAGCAGCCCACTTGCTCTCAGCA 133
QY 95 CYAASPMETASPGIYATHTLEUCYAASNCYALALEUUGIULYEAUAGLUVALPHE 114
DB 134 TGTGACATGGATGCGCCACCTCTGCAATTGTGCTTGAAGAGCTGCTGCTGCTTT 193
QY 115 GILYPROLEUGIYAPGILNEUHI3A1AGILNEUARGHPLEUTHRSERSESERASP 134
DB 194 GGGCTCTGGGGGACCAACTCCATGCCAGCTGGAGAACCTCACTTCCAGCTCTTGAT 253
QY 135 GILNEUSERTPILLEIIEGILNEUUGIULYSAEPGILYMECHLAPEGINGLIUALLEU 154
DB 254 GAGCTCAGTGTGATCATTTGATGCTGCTGAGAGAGATGCGATGCTTCCGAGGGCCCTA 313
QY 155 ASPPROGILYPROHPHAPGILNGIYSETPROPHALAGILNGILNEUAPAPGILYGLN 174
DB 314 GACCCAGAGGCTCTTTGACAGGGGAGCCCTTTTGCCAGAGAGCTGTGAGCGAGCTCAG 373
QY 175 GINALASERPROTYRHISPROGIYSECYAGIYALAGIYALAPROSERPROGIYSESER 194
DB 374 CAGGCCAGCCCTACCAACCCCGGAGCTGTGGCGAGAGAGCCCTCCCTGGAGCTCT 433
QY 195 ASPVALSERTHRALAGIYTHRGYALASERARGSERSEHISSESERASPSESGIYGLY 214
DB 434 GAGCTCTCCACCCAGGAGACT-GGTGCTTCTCGAGAGCTCCACCTCCAGCTCCGGGGA 492
QY 215 SERASPVALASPMETASPGIYATHTLEUCYAASNCYALALEUUGIULYEAUAGLUVAL 234
DB 493 AGTGACGTGACCTGATCCCACTGATGCGAGAGCTCTTCCCGAGAGATGCTTTTCTGAC 552
QY 235 CYALYELYSGLYASPROLYSHISGLIYLYSARGLYSARGLYYARPROARGLYSEUSER 254
DB 553 TGCAGAGAGGGGATCCCAAGCAAGGAGACGGAACGAGAGCCGCGCCGAAAGCTGAGC 612
QY 255 LYSGLIYTRTPARPCYALEUGIULYLYSLESELYSHISALAPROARGIYTHRHIS 274
DB 613 AAGAATCTACGAGACTGTCTCGAGGGCAGAGAGCAAGCAGCCCGCAGAGCAGCCAC 672
QY 275 LEUTRGILUPHEILEARGAPILLEUULEHISPROGILNEUANGIULYLEUMETLYS 294
DB 673 CTGTGGAGTTCATCCGGGACATCTCATCACTCCAGAGCTCAAGAGGCTCTCATGAG 732
QY 295 TTPGILASNAARGHISGLIYVALPHELYSPHELEUARGSERGIUVALAVALAGILNEU 314
DB 733 TGGAGAAATCGCATGAAAGGCGTCTTCAAGTCTCGAGCTCCGAGGCTGTGGCCAACTA 792
QY 315 TTPGILGLINLYSILYSAENSERASPMETTHRTYGLIULYSEUSERARGALAMEARG 334
DB 793 TGGGGCCAAAGAAAGAAACACCAACNTAGCTACAGAAAGCTGAGCCGGGCTATGAGG 852
QY 335 TYRTYTYRTYRARGIULYLEUGIULYARGVALASPGIYARGARGLEUVALTYRLYSPHE 354
DB 853 TACTACTACAAACGAGATCTCTGAAAGGCTGATGGCGGAGCTCGCTCAAGTTT 912
QY 355 GILYLYASNSERSESGIYTRPLYSGIULGIULYVALLEUGINSEARGAEN 371
DB 913 GCGAAAACCTCAAGCGGCTGAAAGAGAGAGAGTCTCCAGAGTGGAGAC 963

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RESULT 12
US-09-922-217-853/c
; Sequence 853, Application US/09922217
; Patent No. US2002007614A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeline Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu

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; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121, 471C13
; CURRENT APPLICATION NUMBER: US/09/922, 217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-853

Alignment Scores:
Pred. No.: 7, 69e-121 Length: 626
Score: 1127.00 Matches: 208
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 56.92% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-922-217-853 (1-626)
QY 53 GLYTHRGILYALASERTYRLEUGIULYGLINPROGILNPHETRPSERYTHRGILVAL 72
DB 624 GGTACAGAGAGGCGGACGCTGTGGGGGAGAACGCCCACTTCTGGTCCAAAGCGAGCTT 565
QY 73 LEUAPTPTLESERTYGLNVALGIULYSAENLYETRTASPALASERLAILLEAPHPHE 92
DB 564 CTGAGCTGATCAGCTACCAAGTGGAGAAACAACTAGCAGAGCAAGCCCACTTGACTTC 505
QY 93 SERARGCYAASPMETASPGIYATHTLEUCYAASNCYALALEUUGIULYEAUAGLUVAL 112
DB 504 TACGATGTGACATGGATGCGCACCTCTGCAATTGTGCTTGAAGAGCTGAGCTTG 445
QY 113 VALPHEGILYPROLEUGIYAPGILNEUHI3A1AGILNEUARGHPLEUTHRSERSESER 132
DB 444 GTCTTTGGGCTCTGGGGGACCACTCCATGCCAGCTCGAGACTCACTTCCAGCTCT 385
QY 133 SERAPGILNEUSERTPILLEIIEGILNEUUGIULYSAEPGILYMECHLAPEGINGLIU 152
DB 384 TCTGATGAGCTCAGTTGATTCATTGAGCTGTGAGAGAGATGCGATGCTTCCAGAGG 325
QY 153 ALALEUASPARGIYPROHPHAPGILNGIYSETPROPHALAGILNGILNEUAPAPGILY 172
DB 324 GCCCTAGACCCAGGGCTCTTTGACAGGGGAGAGCCCTTTGGCCAGAGCTGCTGAGCGAC 265
QY 173 GILYGLINLALASERPROTYRHISPROGIYSECYAGIYALAGIYALAPROSERPROGIY 192
DB 264 GGTCAAGAGGCGGACCCCTTACCAACCCCGGAGCTGTGGCGAGAGCCCTCCGCCGAG 205
QY 193 SERSERAPVALSERTHRALAGIYTHRGYALASERARGSERSEHISSESERASPSESGI 212
DB 204 AGCTCTGAGCTCTCCACCCAGGAGCTGTGCTTCTCGAGGCTCCCACTCTCCAGACTCC 145
QY 213 GILYGLYSEASPVALASPMETASPGIYATHTLEUCYAASNCYALALEUUGIULYEAUAGLU 232
DB 144 GGTGAGAGTGCATGACCTGATCCCATGATGGCGAACCTTTCCCGAGCATGCTTTT 85
QY 233 ARGASPICYALYELYSGLYASPROLYSHISGLIYLYSARGLYSARGLYYARPROARGLYLYS 252
DB 84 CGTGACAGAGAGGGGATCCCAAGACACGAGAGGCGGAACGAGAGGCGGCGCCGAAAG 25
QY 253 LEUSERLYSGIULYTRTPARPCYAS 260
DB 24 CTGAGCAAGAGTACTGAGCTGT 1

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RESULT 13
US-09-833-263-853/c

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QY 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 212  
DB 204 AGCTTACCTCTCCACCGAGGAGCTGTGCTTCTCGAGACTCCACTCTCCAGACTCC 145  
QY 213 G1G1SerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPhe 232  
DB 144 GGTGAAGTACCGGACCTGGATCCCACTGATGGCAAGCTCTTCCCGAGATGGTTT 85  
QY 233 ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyYArgProArgLys 252  
DB 84 CGTGACCTGCAGAAAGGGGATCCCAAGCAGCGGAAGCGAAACGAGGCCCGCCGAAAG 25  
QY 253 LeuSerLysGlyLysTrpAspCys 260  
DB 24 CTGAGCAAGAGTACTGGACTGT 1  
RESULT 15  
US-09-922-217-944/C  
Sequence 944, Application US/09922217  
Patent No. US20020076414A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeline Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yugu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aljun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 944  
LENGTH: 563  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-922-217-944  
Alignment Scores:  
Pred. No.: 1,87e-107 Length: 563  
Score: 1011.00 Matches: 187  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 51.06% Indels: 0  
DB: 9 Gaps: 0  
US-08-978-217-2 (1-371) x US-09-922-217-944 (1-563)  
QY 74 AspTrpLysSerTrpGlnValGluLysAsnLysTrpAspAlaSerAlaIleAspPheSer 93  
DB 562 GACTGGATCAGTACCAAGTGAAGAAAGACAGTACGACCAAGCCGCTTACTCTCA 503  
QY 94 ArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuVal 113  
DB 502 CGATGTGACATGATGGCGCCACCTCTGCATTTGTCCCTTGAAGAGCTGCGTGGTC 443  
QY 114 PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer 133  
DB 442 TTGTGGCTCTTGGGGGACCACTCCATGCGCAGCTGAGACCTTCACTTCCAGCTTCT 383  
QY 134 AspGluLeuSerTrpLysLeuGluLeuGluLysAspGlyMetAlaPheGlnGluAla 153  
DB 382 GATGAGCTCAGTTGATCATTTGAGCTGCTGGAAGAAGATGGCATGGCTTCCAGAGGCC 323  
QY 154 LeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGly 173

DB 322 CTAGACCCAGGGGCCCTTTGACCAAGGGCAGCCCTTTGCCAGAGCTGTGACGACGAT 263  
QY 174 G1G1AlaSerProTrpHisPProGlySerCysGlyAlaGlyAlaProSerProGlySer 193  
DB 262 CAGCAAGCCAGCCCTTACCAACCCCGGACCTGTGGCGCAGAGCCCTTCCCGGACG 203  
QY 194 SerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSerGly 213  
DB 202 TTGACGTCTCCACCGCAGGAGACTGTGCTTCTCGAGCTCCCACTCTCCAGACTCCG 143  
QY 214 GlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArg 233  
DB 142 GGAAGTGAAGTGAAGCTGTGATCCCACTGATGGCAAGCTCTTCCCGAGATGGTTT 83  
QY 234 AspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyYArgProArgLysLeu 253  
DB 82 GACTGCAGAAAGGGGATCCCAAGCAGCGGAAGCGAAACGAGGCCCGCCGAAAGCTG 23  
QY 254 SerLysGlyLysTrpAspCys 260  
DB 22 AGCAAGAGTACTGGACTGT 2

Search completed: November 16, 2004, 03:18:44  
Job time : 648.855 secs

GenCore version 5.1.6  
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# OM protein - nucleic search, using frame\_plus\_p2n model

Run on: November 15, 2004, 14:00:59 ; Search time 114.561 Seconds  
(without alignments)  
2301.862 Million cell updates/sec

Title: US-08-978-217-2  
Perfect score: 1980  
Sequence: 1 MATCHES1SFNYSFSAWTS.....YKFGKNSGCKEEDVLSQSN 371

Scoring table:  
BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

## Command line parameters:

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-Q=/cgn2\_1/USPTO.spool\_P/US08978217/runat\_15112004\_103131\_12764/app\_query.faeta\_1.1500  
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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.cdt  
-LIST=45 -DOCALLIGN=200 -NORM=score -THR MAX=100 -THR MIN=0 -ALIGN=15  
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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPELACK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

Issued Patents NA:\*  
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2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/prodata/1/ina/PCUS\_COMB.seq:\*  
6: /cgn2\_6/prodata/1/ina/backfile1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1980	100.0	1907	4	US-09-300-958A-27
2	1980	100.0	1907	4	US-09-570-593-4
3	1980	100.0	1920	1	US-08-746-789A-1
4	903	45.6	502	4	US-09-389-681-282
5	903	45.6	502	4	US-09-620-405B-282
6	903	45.6	502	4	US-09-339-338-282
7	903	45.6	502	4	US-09-433-826B-282
8	903	45.6	502	4	US-09-604-287A-282
9	903	45.6	502	4	US-09-834-759-282
10	903	45.6	502	4	US-09-590-751A-282
11	559	28.2	5427	3	US-09-009-913-2
12	555.5	28.1	5510	3	US-09-009-913-3

13	555.5	28.1	5667	3	US-09-009-913-4	Sequence 4, Appl1
14	519.5	26.2	852	3	US-09-020-956-44	Sequence 44, Appl1
15	519.5	26.2	852	3	US-09-030-607-44	Sequence 44, Appl1
16	519.5	26.2	852	3	US-09-439-313-44	Sequence 44, Appl1
17	519.5	26.2	852	3	US-09-352-616A-44	Sequence 44, Appl1
18	519.5	26.2	852	4	US-09-232-145A-44	Sequence 44, Appl1
19	519.5	26.2	852	4	US-09-159-812-44	Sequence 44, Appl1
20	519.5	26.2	852	4	US-09-636-215-44	Sequence 44, Appl1
21	519.5	26.2	852	4	US-09-685-166A-44	Sequence 44, Appl1
22	519.5	26.2	852	4	US-09-115-453-44	Sequence 44, Appl1
23	519.5	26.2	852	4	US-09-688-483-44	Sequence 44, Appl1
24	519.5	26.2	852	4	US-09-679-426-44	Sequence 44, Appl1
25	486.5	24.6	848	3	US-09-009-913-338	Sequence 338, App
26	432	21.3	2280	3	US-09-009-913-6	Sequence 6, Appl1
27	432	21.3	2428	3	US-09-009-913-6	Sequence 6, Appl1
28	432	21.3	2498	3	US-09-009-913-10	Sequence 10, Appl1
29	281	14.2	237	4	US-09-016-434-927	Sequence 927, App
30	246.5	12.4	2375	1	US-08-368-281-1	Sequence 1, Appl1
31	242	12.2	2340	1	US-08-368-281-3	Sequence 1, Appl1
32	238.5	12.0	1894	4	US-09-570-593-1	Sequence 1, Appl1
33	238.5	12.0	1905	3	US-09-055-113-2	Sequence 2, Appl1
34	238.5	12.0	3317	4	US-09-570-593-12	Sequence 12, Appl1
35	234.5	11.8	1752	3	US-09-360-779-1	Sequence 1, Appl1
36	234.5	11.8	1752	3	US-09-435-335-1	Sequence 1, Appl1
37	233	11.8	2268	3	US-09-344-579-1	Sequence 1, Appl1
38	228	11.5	1604	5	PCR-US93-06251-9	Sequence 9, Appl1
39	228	11.5	1604	5	US-08-306-691B-43	Sequence 43, Appl1
40	214.5	10.8	1933	4	US-09-920-759-3	Sequence 3, Appl1
41	214.5	10.8	1936	4	US-09-920-759-10	Sequence 10, Appl1
42	213.5	10.8	1528	4	US-08-878-177-3	Sequence 3, Appl1
43	212	10.7	2938	2	US-08-343-443B-3	Sequence 1, Appl1
44	207	10.5	1447	3	US-08-878-177-1	Sequence 1, Appl1
45	205.5	10.4	454	4	US-09-270-767-10903	Sequence 10903, A

## ALIGNMENTS

RESULT 1  
US-09-300-958A-27  
Sequence 27, Application US/09300958A  
Patent No. 6495319  
GENERAL INFORMATION:  
APPLICANT: McCrelland, Michael  
APPLICANT: Welsh, John  
APPLICANT: Trenkle, Thomas  
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
FILE REFERENCE: P-PH 3457  
CURRENT APPLICATION NUMBER: US/09/300,958A  
CURRENT FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/083,331  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/098,070  
PRIOR FILING DATE: 1998-08-27  
PRIOR APPLICATION NUMBER: 60/116,624  
PRIOR FILING DATE: 1999-02-04  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-300-958A-27  
Alignment Scores:  
Pred. No.: 2.49e-191  
Score: 1980.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 100.00%  
DB: 4  
Length: 1907  
Matches: 371  
Conservative: 0  
Mismatch: 0  
Indels: 0  
Gaps: 0  
US-08-978-217-2 (1-371) x US-09-300-958A-27 (1-1907)

QY 1 MetAlaIaThrCysGluIleSerAsnIlePheSerAntyRpheseraIametyrSer 20  
 Db 96 ATGGCTCAACCTGTGATAGCAACATTTTGTAGCACTACTTCAGTGCATGTACAGC 155  
 QY 21 SerGluAspSerThrLeuAlaSerValProProAlaIaThrPheGlyAlaAspAspLeu 40  
 Db 156 TCGGAGAGCTCCACCTGGCTCTGTTCCTCCCTGCTCCACCTTGGGGCGAGACTTG 215  
 QY 41 ValLeuThrLeuSerAspProGluMetSerLeuGluGlyThrGluValAspTyrLeu 60  
 Db 216 GTACTGACCTTGACCAACCCCGAGATGTCTATGAGGTACAGAGAGCCAGCTGGTTG 275  
 QY 61 GlyGluGlnProGlnPheTyrSerValThrGluValLeuAspTyrIleSerTyrGlnVal 80  
 Db 276 GGGGAAACAGCCCGAGTCTGGTCAAGACCGAGGTTCTGGAGCTGATCAGCTACCAAGTG 335  
 QY 81 GluIleAsnIleTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 Db 336 GAGAAAGAACAGTACGAGCAGAGCCAGTTCACAGATGTGACATGATGGAGCGCC 395  
 QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 Db 396 ACCCTCTGCATTTGTGCTTGAAGACTGCTGCTGCTTGGGCTCTGGGGAGCCAA 455  
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTyrIleIle 140  
 Db 456 CTCATGCTCCAGCTGCAGAGACTCCTCAGCTCTTCTGATGAGCTCAGTTGGATCAT 515  
 QY 141 GluLeuLeuGluIleAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160  
 Db 516 GAGCTGCTGAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCCCTTTGAC 575  
 QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
 Db 576 CAGGGAGAGCCCTTTGCTGAGAGCTGCTGAGACAGCTACAGAGCCACCTTACAC 635  
 QY 181 ProGlySerCysGlyAlaGlyAlaAspSerProGlySerSerAspValSerThrAlaGly 200  
 Db 636 CCGGCGAGCTGTGGCGCAGAGAGCCCTCCCTGGAGCTCTGACGCTCCACGCGAGGG 695  
 QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerCylGlySerAspValAspLeuAsp 220  
 Db 696 ACTGGTCTTCTGAGAGCTCCACTCTCAGACTCCGCTGAGAGTGCAGTGGAGCTGGAT 755  
 QY 221 ProThrAspGlyIleLeuPheProSerAspGlyPheArgAspCysIleValAspPro 240  
 Db 756 CCGACTGATGGCAAGCTCTTCCCGAGGATGTTTCTGATGCAAGAGAGGGGATCCC 815  
 QY 241 LysHisGlyIleValArgIleValArgProArgIleValLeuSerIleValTyrPheAspCys 260  
 Db 816 AAGCAGCGAGAGGAGAAACAGGCGCGGCCCGGAAAGCTGAGCAAAAGAGTCTGGGACTGT 875  
 QY 261 LeuGluGlnIleValSerIleValAlaProArgGlyThrHisIleLeuTyrPheIleArg 280  
 Db 876 CTGAGAGGCAAGAGAGCAAGCAGCGCCAGAGGCCCAACCTGTGGAGTTTCTATCCGG 935  
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 QY 301 GlyValPheIleValSerPheLeuArgSerGluAlaValAlaGlnLeuTyrPheIleValVal 320  
 Db 996 GGGGTCTTCAAGTTCTCGCTCCGAGAGCTGTGGCCCAACATATGGGGCCAAAGAAAAG 1055  
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QY 361 TrrPheGluGluGluValLeuGlnSerArgAsn 371  
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 RESULT 2  
 US-09-570-593-4  
 ; Sequence 4, Application US/09570593  
 ; Patent No. 6566063  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kaufmann, Joerg  
 ; APPLICANT: Xin, Hong  
 ; APPLICANT: Hartowe, Greg  
 ; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
 ; FILE OF INVENTION: CANCER  
 ; FILE REFERENCE: 2300-1556  
 ; CURRENT APPLICATION NUMBER: US/09/570,593  
 ; PRIORITY FILING DATE: 2000-05-12  
 ; PRIORITY APPLICATION NUMBER: 60/134,112  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (96)...(1211)  
 ; OTHER INFORMATION: Human epithelial-restricted with serine box (BSX)  
 ; US-09-570-593-4  
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 Query Match: 100.00% Indels: 0  
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 Db 96 ATGGCTCAACCTGTGATAGCAACATTTTGTAGCACTACTTCAGTGCATGTACAGC 155  
 QY 21 SerGluAspSerThrLeuAlaSerValProProAlaIaThrPheGlyAlaAspAspLeu 40  
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 QY 41 ValLeuThrLeuSerAspProGluMetSerLeuGluGlyThrGluValAspTyrLeu 60  
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 QY 61 GlyGluGlnProGlnPheTyrSerValThrGluValLeuAspTyrIleSerTyrGlnVal 80  
 Db 276 GGGGAAACAGCCCGAGTCTGGTCAAGACCGAGGTTCTGGAGCTGATCAGCTACCAAGTG 335  
 QY 81 GluIleAsnIleTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 Db 336 GAGAAAGAACAGTACGAGCAGAGCCAGTTCACAGATGTGACATGATGGAGCGCC 395  
 QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 Db 396 ACCCTCTGCATTTGTGCTTGAAGACTGCTGCTGCTTGGGCTCTGGGGAGCCAA 455  
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTyrIleIle 140  
 Db 456 CTCATGCTCCAGCTGCAGAGACTCCTCAGCTCTTCTGATGAGCTCAGTTGGATCAT 515  
 QY 141 GluLeuLeuGluIleAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160  
 Db 516 GAGCTGCTGAGAGAGATGAGTGGCTTCCAGAGAGCCCTAGACCCAGGCGCCCTTTGAC 575

QY 161 GlnGlySerProPheHlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
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 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240  
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 QY 361 TyrLysGlyGluGluValLeuGlnSerArgAsn 371  
 DB 1176 TGGAGAGAGAGAGAGTCTTCCAGAGTCCGAGAC 1208  
 RESULT 3  
 US-08-746-789A-1  
 ; Sequence 1, Application US/08746789A  
 ; Patent No. 5789200  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
 ; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ERF3  
 ; NUMBER OF SEQUENCES: 4  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SmithKline Beecham Corporation  
 ; STREET: 709 Swedeland Road, P.O. Box 1539  
 ; CITY: King of Prussia  
 ; STATE: PA  
 ; COUNTRY: USA  
 ; ZIP: 19406-0939  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
 ; COMPUTER: IBM 486  
 ; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
 ; SOFTWARE: MICROSOFT WORD  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/746,789A  
 ; FILING DATE: No. 5789200ember 15, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

; NAME: William T. Han  
 ; REGISTRATION NUMBER: 34,344  
 ; REFERENCE/DOCKET NUMBER: ATG 50024  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 610 270 5219  
 ; TELEFAX: 610 270 4026  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1920  
 ; TYPE: Nucleic Acid  
 ; STRANDEDNESS: Single  
 ; TOPOLOGY: Linear  
 ; ANTI-SENSE: NO  
 ; US-08-746-789A-1  
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 DB 115 ATGGCTGCAACCTGTGAGATTGACACATTTTATGCACTTCTGATCGATGACAGC 174  
 QY 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyValaAspLeu 40  
 DB 175 TGGAGAGATCTCAACCTGTGCTGTGTCCCTGCTGCGACACTTGGGGCCGATGACTTG 234  
 QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGlyGlyThrGlyLysAlaSerTyrLeu 60  
 DB 235 GACTGACCCCTGAGCAACCCCGAGATGTCATTGAGAGGTACAGAGAGCTGAGTGG 294  
 QY 61 GlyGluGlnProGluPheTyrSerLysThrGlnValLeuAspTyrIleSerTyrGlnVal 80  
 DB 295 GGGAGAACCCCGAGTCTGTGTGAGAGCGAGGTTCTGACTGATCAGTACCAAGTG 354  
 QY 81 GlyLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 DB 355 GAGAGAAACAAGTACGACCGCAAGCGCATTTGACTTCCAGATGATGATGGAGGCC 414  
 QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 DB 415 ACCCTGCAATTGTGCCCTTGAGAGAGCTGCTGTGTCTTGGGCGGAGACCA 474  
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTyrIleIle 140  
 DB 475 CTCACAGCCCGAGTGGAGACCTCACTTCACCTCTTGAAGAAGTCACTGAGATCATTT 534  
 QY 141 GluLeuLeuGlyLysAspGlyMetAlaPheGlnGluValaLeuAspProGlyProPheAsp 160  
 DB 535 GAGCTCTGGAAGAAGATGGCATGGCTTCCAGAGAGCCCTTGAAGCCAGAGGCCCTTTGAC 594  
 QY 161 GlnGlySerProPheHlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
 DB 595 CAGGAGAGCCCTTTGCCAGAGAGCTGAGAGAGCGTCAAGAGCCAGAGCCCTTACAC 654  
 QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValaSerThrAlaGly 200  
 DB 655 CCGGAGAGCTGTGCGCAGAGAGCCCTTCCCTGAGAGCTCTGACCTTCCACCGAGAG 714  
 QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValaAspLeuAsp 220  
 DB 715 ACTGAGCTCTTCTGAGAGCTCCCACTCTGAGCTCCGAGAGAGTACCTGAGACTGTGAT 774  
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240  
 DB 775 CCACCTGATGCGAAGCTTCTCCCAAGAGATGTTTGTGATGTCAGCAAGAGGAGATCCC 834



Qy	244	lyvshlsqlylvysarglyvyrgrglaaarglyvlseserlyvsluTyTrPaRpsCy	260
Db	835	AAGCAGGGGAAGCGGAAACGAGGGCGGGCCCGAAGCTGAGCAAAAGATGAGGGAATGT	894
Qy	261	leuGluglylvyslseserlyshisaIaProArGlyThrhlsleuTrpGluPhellearq	280
Db	895	CTCGAGGGCAGAGAGGCAAGCAGCGGCCAGAGGCCACCTGTGGAGTTCAATCCGG	954
Qy	281	AspIleleuIlehisProGluLeuAengIuglyLeuMeLyserTrpGluAaAarghlsqly	300
Db	955	GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAATGGAGAAATCGCATGAA	1014
Qy	301	GlyValPheLyPheLeuAargserGlyAvalAAlagInleuTrpGlyGlnlyslvlyls	320
Db	1015	GGGGTTCAAGTCTCTGGGCTCCGAGGGGTGGGCCCACTATGGGGCGCAAAAGAAAG	1074
Qy	321	AenSerAsmMetThrTyrgInlylsleuSerArgAlaMetArgTyTrTyrlvsaRgln	340
Db	1075	AACGCAACATGACCTACAGAAAGCTGAGACCGGGCCATAGTACTACTACAAACGGAG	1133
Qy	341	IleleuGluArgValAspGlyArgArgLeuValTyrlvlyPheGlyLyAsnsersergly	360
Db	1135	ATCTCGAAGCGGGTGATGGCGGGCAGCTCGTCTCAAGATTGGCAAAACTCAAGCGGC	1199
Qy	361	TrpLyGluGluGluValleuGlnserAargAa	371
Db	1195	TGGAAGAGAGAGAGGTTCTCCAGACTCGGAAC	1227
RESULT 4			
US-09-389-681-282			
/ Sequence 282, Application US/09389681A			
/ Patent No. 6518237			
/ GENERAL INFORMATION:			
/ APPLICANT: Yugu, Jiang			
/ APPLICANT: Dillon, David C.			
/ APPLICANT: Mitcham, Jennifer L.			
/ APPLICANT: Xu, Jiangchun			
/ TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND			
/ TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE			
/ FILE REFERENCE: 210121.470C3			
/ CURRENT APPLICATION NUMBER: US/09/389,681A			
/ CURRENT FILING DATE: 1999-09-02			
/ NUMBER OF SEQ ID NOS: 463			
/ SOFTWARE: FastSeq for windows Version 3.0			
/ SEQ ID NO 282			
/ LENGTH: 502			
/ TYPE: DNA			
/ ORGANISM: Homo sapiens			
US-09-389-681-282			
Alignment Scores:			
Pred. No.:			
Score:			
Percent Similarity:			
Best Local Similarity:			
Query Match:			
DB:	4	Length: 502	
		Matches: 166	
		Conservative: 0	
		Mismatches: 0	
		Indels: 0	
		Gaps: 0	
US-08-978-217-2 (1-371) x US-09-389-681-282 (1-502)			
Qy	184	CyGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla	203
Db	3	TGAGGCGAGAGAGCCCTCTCCCGGCACTCTGAAGTCTCCACCGCAGAGGACTGTGCT	62
Qy	204	SehArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp	223
Db	63	TCTCGAGGCTCCACACTCTTCAGACTCCGGTGGAGAGGAGTGGACCTGGATCCCACTGAT	122
Qy	224	GlyLyLeuPheProSerAspGlyPheArgAspCyLyLeLyGlyLyAspProLyshlsqly	243
Db	123	GCGAAGCTCTTCCCGCAGCATGTCTTTCGTGACTGCAAGAGGGGAGATCCCAAGCAGGG	182
Qy	244	LyvArgLyvArglyvArgProArglyvlseserlyvsluTyTrPaRpsCyLeuGluGly	263

Db	183	AAAGCGAAGACGAGCGCGCCCGGAAAGCTGACGAAAGAGTACTGGACTGTCTGAGCGC	242
Qy	264	LYALYSERLYSHIALAProArgLYThrHisLeuTPGluPheHleArgPILeU	283
Db	243	AAAGAGGCAAGACACCGCCGACAGAGCACCCCTGTGGAGTTTCATCCGGGACATCTC	302
Qy	284	ILHISProGluLeuAsnInduLYLeuMetLeuSTPGLuaAnaRGHLAGluGVAlPhe	303
Db	303	ATCCACCCGAGCTCAACAGAGGCGCTCATGAAGTGGAGAAATCGCATGAAGGGCTTTC	362
Qy	304	LYSPHeuArgSerGluIuaIaValAGluLeuTPGLyGlnLYbLYsAsnSerAsn	323
Db	363	AAAGTCTCGCTCCGAGGCTGTGGCCCACTATGGGCCCAAAAGAAAAGAACACGAC	422
Qy	324	MetThyTgLYuLYsLeuSerArgALaMetArgLYTYTYLYLYbArgGluILEuGlu	343
Db	423	ATGACCTACAGAAAGCTGAGCCGGGACATGAGGTACTACTCAAAACGGAGATCTCGAA	482
Qy	344	ArgValAspGlyArgArg 349	
Db	483	CGGGTGAGTGCCGCGCA 500	
RESULT 5			
US-09-620-405B-282			
Sequence 282. Application US/09620405B			
Patent No. 6528054			
GENERAL INFORMATION:			
APPLICANT: Jiang, Yugu			
APPLICANT: Dillon, Davin C.			
APPLICANT: Mitcham, Jennifer L.			
APPLICANT: Xu, Jiangchun			
APPLICANT: Harlocker, Susan L.			
APPLICANT: Hepler, William T.			
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND			
FILE REFERENCE: 210121.470C8			
CURRENT FILING DATE: 2000-07-20			
NUMBER OF SEQ ID NOS: 495			
SOFTWARE: FastSeq for Windows Version 3.0			
SEQ ID NO 282			
LENGTH: 502			
TYPE: DNA			
ORGANISM: Homo sapiens			
US-09-620-405B-282			
Alignment Scores:			
Pred. No.: 8.97e-83			
Score: 903.00			
Percent Similarity: 100.00%			
Best Local Similarity: 100.00%			
Query Match: 45.61%			
DB:	4	Gaps: 0	
US-08-978-217-2 (1-371) x US-09-620-405B-282 (1-502)			
Qy	184	CyGGLYALAGLYALaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla	203
Db	3	TGTGGCCGAGACCCCCCTCCCCCGGACGCTTGACGTCTCCACCGCAGGGAGTGTCT	62
Qy	204	SerArgSerSerHisSerSerAspSerGlyLYSerAspValAspLeuAspProThrAsp	223
Db	63	TCTCGAGCTCCCACTCTCAAGCTCGGTGAAATGACGTGACCTGGATCCCATCAT	122
Qy	224	GLYLYsLeuPheProSerAspGlyPheArgAspCYbLYbLYsGlyAspProLYbHisGly	243
Db	123	GGCAAGCTTTTCCCGACGATGATTTTGTGTGCTGCTCAAGAGGGGGATCCCAAGCAGGG	182
Qy	244	LYbArgLYbArgGlyArgProArgProArgLYsLeuSerLYbLYbTYTTPArgAspLYsLeuGluGly	265
Db	183	AAAGGAAAGAGAGCGCGCCCGAAAGCTGAGCAAAAGAGTACTGGGACTGTCTTGAAGGC	242



Oy	26	LyblyvSerlysh1s1a1aProArGlyThrh1s1eUThpGluPhe11eArGAsp11eLeu	283
Oy	26	LyblyvSerlysh1s1a1aProArGlyThrh1s1eUThpGluPhe11eArGAsp11eLeu	283
Db	243	AAAGAGGCAAGACACCCGCCAGAGGACCACTCTGTGGAGTTTCATCCGGACATCTTC	302
Oy	284	11e1s1ProGlu1u1e1u1s1n1g11y1e1u1e1y1s1T1pG1u1e1A1rG1s1g1u1y1a1Phe	303
Db	303	ATCACCCGGAGCTCAACGAGGGCCCTCATGAACTGGAGAAATCCGGCATGAAAGGCTCTTC	362
Oy	304	LybPheLeuArGserGlu1a1a1a1a1a1eUThpG1yG1n1y1b1y1b1s1n1Ser1s1n	323
Db	363	AACTTCTGTGGCTCCACAGCTGTGGCCCAACTGTGGGGCCAAAAGAAAAGAACAGCAAC	422
Oy	324	MeThThTyGlu1u1s1e1u1s1e1r1p1a1m1e1ArG1y1r1y1r1y1z1y1ArG1u11e1e1u1	343
Db	423	ATACCTACGAGAGCTGAGCCGGCCATGAGGTACTACTCAAAACGGAGATCTGGAA	482
Oy	344	ArgValAspGlyArGArg 349	
Db	483	CGGTGGATGGCCGGCGA 500	
RESULT 6			
US-09-339-338-282			
Sequence 282, Application US/09339338A			
Patent No. 6573368			
GENERAL INFORMATION:			
APPLICANT: Yugu, Jiang			
APPLICANT: Dillon, Davin C.			
APPLICANT: Mitcham, Jennifer L.			
APPLICANT: Xu, Jiangchun			
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND			
FILE REFERENCE: 210121.470C2			
CURRENT APPLICATION NUMBER: US/09/339,338A			
NUMBER OF SEQ ID NOS: 315			
SOFTWARE: FastSeq for Windows Version 3.0			
SEQ ID NO 282			
LENGTH: 502			
TYPE: DNA			
ORGANISM: Homo sapiens			
US-09-339-338-282			
Alignment Scores:			
Pred. No.: 8,97e-83 Length: 502			
Score: 903.00 Matches: 166			
Percent Similarity: 100.00% Conservative: 0			
Best local Similarity: 100.00% Mismatches: 0			
Query Match: 45.61% Indels: 0			
DB: 4 Gaps: 0			
US-08-978-217-2 (1-371) x US-09-339-338-282 (1-502)			
Oy	184	CyAG1yAlaG1yAlaProSerProGlySerSerArpValSerThraG1yThrh1yAla	203
Db	3	TGTGGCGCAGAGCCCCCTCTCCCGCACTTGACGTCTCCACCGCAGGACTGTGTCT	62
Oy	204	SeArGserSer1s1s1e1s1e1s1e1r1p1a1m1e1ArG1y1y1s1e1r1p1a1s1p1a1s1p1r1o1Th1r1Asp	223
Db	63	TCTCGGAGCTCCCACTCTCACTCCGCTGGAGTGAAGCTGGACCTGATCCACATGAT	122
Oy	224	G1y1y1s1e1u1PheProSerArpG1yPheArGAspCy1y1y1b1y1b1y1Asp1r1o1y1h1e1G1y	243
Db	123	GGCAAGCTCTTCCCGCAGCATGTGTTTCTGTGACTCAAGAAAGGGGAGATCCCAACACGGG	182
Oy	244	LyArGlyyArG1yArG1yArG1yProArGly1y1e1u1s1e1r1y1s1g1u1y1r1y1r1p1a1s1p1e1u1G1y	263
Db	183	AAAGCGAAACGAGCGCGGCCCGAAAGCTGAGCAAAAGATACATCGGACTGTCTGAGGGC	242
Oy	264	Ly1y1s1e1r1y1s11s1a1aProArG1yThrh1s1e1UThpGluPhe11eArGAsp11e1e1u	283
Db	243	AAAGAAAGCAAGCACCGGCCCAAGGCAACCACTGTGGAAATTCATCCGGGACATCTTC	302
Oy	284	11e1s1ProGlu1e1u1s1n1g11y1e1u1e1y1s1T1pG1u1e1A1rG1s1g1u1y1a1Phe	303

Db	303	ATCCACCGGAGACTCAAGAGGCGCTCATGAAATGGGAAATCGGATCGCATGAAGGCGTCTTC	362
Qy	304	lyePhleuArySerGIuAlaValAlaGluLeuTrpGlyGluIlySlyIySaenSerAsn	323
Db	363	AAGTCTCTCGCTCGAGGCTGTGTGCCCACTATGGGGCCAAAAGAAAAAGAACAGCAC	422
Qy	324	MetThrTYrGIuIlyLeuSerIySghIaMetArGTyTYrTYrIlySAsyGluIleLeuGlu	343
Db	423	ATACCTACGAAGAGGTGAGCCGGGCGCATGAGTACTTCTACAAACGGAGATCTGGAA	482
Qy	344	ArgValAspGIyArgArG 349	
Db	483	CGGGTGGATGGCCGGGA 500	
RESULT 7			
US-09-433-826B-282			
; Sequence 282, Application US/09433826B			
; Patent No. 6579973			
; GENERAL INFORMATION:			
; APPLICANT: Jiang, Yugu			
; APPLICANT: Dillon, Davin C.			
; APPLICANT: Mitcham, Jennifer L.			
; APPLICANT: Xu, Jiangchun			
; APPLICANT: Harlocker, Susan L.			
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND			
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE			
; FILE REFERENCE: 210121.470C4			
; CURRENT APPLICATION NUMBER: US/09/433,826B			
; CURRENT FILING DATE: 1999-11-03			
; NUMBER OF SEQ. ID NOS: 474			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 282			
; LENGTH: 502			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-433-826B-282			
Alignment Scores:			
Pred. No.: 8,97e-83 Length: 502			
Score: 903.00 Matches: 166			
Percent Similarity: 100.00% Conservative: 0			
Best Local Similarity: 100.00% Mismatches: 0			
Query Match: 45.61% Indels: 0			
DB: 4 Gaps: 0			
US-08-978-217-2 (1-371) x US-09-433-826B-282 (1-502)			
Qy	184	CyGGIyAlAGIyAlAProSerProIySerSerAspValSerThrAlaGIyThrGIyAla	203
Db	3	TGTGGGGCGAGAGCCCCCTCCCGGAGCTTGACGTTCACCGGAGGAGACTGGTCT	62
Qy	204	SeArISerSerHisSerSerAspSerGIyGIySeArAspValAspLeuAspProThrAsp	223
Db	63	TCTCGAGCTCCCACTCTCAAGCTCCGGTGAAGTACGTGAGACTGTGATCCACTGAT	122
Qy	224	GIyLyLeuPheProSerAspGIyPheArGAspCyIySlyGIyAspProIySHIGIy	243
Db	123	GGCAAGCTTCCCCCGAGCATGATGTTTCTGTGACTGCAGAAAGGGGAGATCCCAACACGGG	182
Qy	244	LyArGIyLeuArGIyArGProArGIyLeuSerIySgIyIyTrpArAspGIyLeuGIy	265
Db	183	AACCGGAACCGAGGCGCGCCCGAAAGCTGAGCAAGAGTACTGGAGCTGTCTGAAGGC	242
Qy	264	LyLeuSerIySHIAlAProArGIyThrHisIeLeuTrpGluPheIleArAspIleLeu	283
Db	243	AAAGAAAGCAAGCAGCGCCCGCAAGGCAACCACTGTGGAGTTCATCCGGAGATCTTC	302
Qy	284	IlHisIeProGIyIuLeuAsnGIyIyLeuMetIyTrpGIyIuAsnArGHisGIyGIyValPhe	303
Db	303	ATCCACCGGAGGCTCAAGAGGCGCTCATGAAATGGGAGATCGGCATGAAGCGCTTTC	362
Qy	304	lyePhleuArySerGIuAlaValAlaGluLeuTrpGlyGluIlySlyIySaenSerAsn	323

Db	363	AAgTTCTGTGGCTTCGAGGCTGTGGCCCAACTGTGGGCGCAAAAGAAAAAGACGCGAC	422
Qy	324	MeThrTyTcIuLyIsEuSeSrAlaMeLaRgTyTyTyTyLyVaRgIuIlLeuGlu	343
Db	423	ATGCCTACAGAAAGCTGAGCCGGGCGCATGAGGTACTACTACAAACGGGAGATCTCGAA	483
Qy	344	ArgValaSpIyArRgRg	349
Db	483	CGGGTGAGTGGCCGCGCA	500

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1  RESULT 8
2  US-09-604-287A-282
3  Sequence 282: Application US/09604287A
4  Patent No. 6586572
5  GENERAL INFORMATION:
6  APPLICANT: Jiang, Yugu
7  APPLICANT: Dillon, Davin C.
8  APPLICANT: Mitcham, Jennifer L.
9  APPLICANT: Xu, Jiaqichun
10 APPLICANT: Harlocker, Susan L.
11 APPLICANT: Hepler, William T.
12 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
13 FILE REFERENCE: 210121.470C7
14 CURRENT APPLICATION NUMBER: US/09/604,287A
15 CURRENT FILING DATE: 2000-06-22
16 NUMBER OF SEQ ID NOS: 489
17 SOFTWARE: FastSeq for Windows Version 3.0
18 SEQ ID NO 282
19 TYPE: DNA
20 LENGTH: 502
21 ORGANISM: Homo sapiens

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Alignment Scores:	
Pred. No.:	8.97e-83
Score:	903.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	45.61%
DB:	4
	Gaps: 0
	Matches: 166
	Conservative: 0
	Mismatches: 0
	Indels: 0
	Gaps: 0

US-08-978-217-2 (1-371) X US-09-604-287A-282 (1-502)

QY	18	CYGGIYAlaIYAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla	203
Db	3	TGTGGCGCAGAACCCCTCTCCCGGACCTTGAGCTCCACCGCAGGAGCTGTGCT	62
QY	204	SeArSerSerHisSerSerAspSerGlyIYSerAspValAspLeuAspProThrAsp	223
Db	63	TCTCGGAGCTCCACCTCTCACTCCGGTGGAGTGAAGTGGAGCTTGATCCACCTGAT	122
QY	224	GlyLYValLeuPheProSerAspGlyPheArgAspCysLYValYGGLYAspProLYHisGly	243
Db	123	GGGAAAGCTCTCCCGACGATGGTTTCTGTGACTCGAAGAAAGGGGGATCCCAACACGGG	182
QY	244	LYArgLYArgGlyLYArgProArgLYValSerArgLYValLYTTPAspCysLeuGly	265
Db	183	AACCGGAAACGAGCGCGGCCGCAAGCTGACCAAAAGATCTGGACTGTCTGAGAGGC	242
QY	264	LYLeuSerLYHisIAlaProArgLYThrHisLeuThrProPheHisArgAspIleu	283
Db	243	AAGAAGACAGACACCGCCGACAGGACCCACTGTGGAGTTGATCTCGGAGCATCTCTC	302
QY	284	IHisIProGlyLeuLuanGlyLeuMetLYTTPGlyuAsnArgHisGlyLYValPhe	303
Db	303	ATCCACCCGGAGCTCAACAGGGGCTCATGAAGTGGAGAAATCGGCATGAAGGCGCTTTC	362
QY	304	LYPheLeuArgSerGlyuAlaValAlaGlyLeuThrProGlyLYValLYValAsnSerAsn	323
Db	363	AAGTCTCTGGCTCCAGAGCTGTGGCCCAATAGGGGCCAAAGAAAAAACAACAGAAC	422

Accession	Sequence	Position
Oy	MetThyTgClyuysyusuarAryAlameArqTrrYrYlybArGluIleLeuGlu	344
Oy	423 ATAACTCAAGAGAACTGAAGCCGGGCACTAGAGTACTCTCAAAACGGGAATCTCTGAA	482
Oy	344 ArgValAspGlyArgArg	349
Db	483 CGGATGGATGGCCGGCGCA	500

```

RESULT 9
US-09-834-759-282
; Sequence 282. Application US/09834759
; Patent No. 6680197
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-834-759-282

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Alignment Scores:		
Pred. No.:	8,978-83	Length: 507
Score:	903.00	Matches: 160
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	45.61%	Indels: 0
DB:	4	Gaps: 0

US-08-978-217-2 (1-371) x US-09-834-759-282 (1-502)

Qy	188	CYGGVALAGVALARProSerProGlySerSerARValSerTHPVALAGLTHGVALA	2039
Db	3	TGAGGGCAGAGACCCCTCCCGGAGCTTGACGTCCACGGCAGGGACTGGT	62
Qy	204	SeARSerSerHisSerSerARSerGlySerSerARValAARLeuARProTHAR	2223
Db	63	TCTCGAGCTCCCACTCTCCACACTCCGGTGAAGTACGTGACCTGGATCCCACTGAT	1222
Qy	224	GLYLeuLeuPheProSerARProLYPheARGLYValYARProLYNHAGLY	2433
Db	123	GGCAGCTCTCCCGAGCGATGGTTTGTGTACTGACAAAGAGGGGATCCCAACACGGG	1829
Qy	244	LYVALYVALYARProGLYLeuSerLYGILYTPRARCYValLeuGLY	2633
Db	183	AACGGAAACGAGCGCGCCCGAAAGCTGACAAAGAGTCTGGGACTGTCTGACAGGC	2422
Qy	264	LYLYSerLYNHValARProGLYHrHValEUTProLYPheLYLeu	2833
Db	243	AACAAAGACAGACCGCCCGCAGAGCACCCACTGTGGAGTTCAATCCGGGACATCTC	3022
Qy	284	ILHARProGLYLeuARnGLYLeuSerLYTPRGLYAAARHAGLYGLYValPhe	3033
Db	303	ATCCACCCGAGCTCAACAGGGGCTCATGAAGTGGAGAAATCGGACTGAAGGGCTTTC	3622
Qy	304	LYPheLeuARSerGILYValAGLYLeuTPRGLYGLYValYLYASARSerAsn	3233
Db	363	AAATTTCTGCGCTCCGAGGCTTGCCCACTATGGGCGCAAAAGAAAAGAACAGCAC	4222
Qy	324	MetTHYRGLYLYLeuSerARGLYMetARGLYTYTYLYValARGLYLYLeuGLY	3433

[illegible]

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Db          483 CGGGTGGATGCCGGCGA 500

RESULT 11
US-09-009-913-2
; Sequence 2, Application US/0900913
; Patent No. 6087485
; GENERAL INFORMATION:
; APPLICANT: AxyS Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma Related Genes
; NUMBER OF SEQUENCES: 339
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bozicevic & Reed, LLP
; STREET: 285 Hamilton Ave, Suite 200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/009,913
; FILING DATE: 21-JAN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sherwood, Pamela J
; REGISTRATION NUMBER: 36,677
; REFERENCE/DOCKET NUMBER: SEQ-4P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-327-3231
; TELEFAX: 650-327-3231
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5427 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
;
US-09-009-913-2

Alignment Scores:
Pred. No.: 2.98e-46 Length: 5427
Score: 559.00 Matches: 140
Percent Similarity: 47.42% Conservative: 44
Best Local Similarity: 36.08% Mismatches: 88
Query Match: 28.23% Indels: 116
DB: 3 Gaps: 12

US-08-978-217-2 (1-371) x US-09-009-913-2 (1-5427)

QY 27 AlasevValProProAlaIaIaThr-----PheGIyAlaAspAspLeuValIeuthr 43
   |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
Db 84 GCTCCCTCCCTCCCTCAACAGCAGCAGTATGGATTTCACACCCAGAACTTTAGTA--- 141
   44 LeuserAnbProGlnMetSerIeuGluGly-----ThrgIuYsAlasev----- 53
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 141 -----AATGATGATCATGATTCTGGAAAGAGGTGTGAATGAATCTCAACCCCGCAAC 194
   54 -----ThrgIuYsAlasev----- 58
   |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
QY 195 AACCTCCTTCACGAGCCGCCAGCCTGGACAGACACTACTCCACGTGCATGTTTCCAGT 255
   59 -----TrpleuGIyGluGlnProGlnIphetIpsSerIyThrgIuVal 72
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 255 GGGTTTTTTGGAGGCCAGTGCATGAATAATTCATCTCTAGTACTGACCAAGTTACAGGTG 314
   73 LeuAspTrIpleSerTyrgIuValGIuYsAenIyTyraSpAlasevAlaIleAspPhe 92

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Db      315 TGGAGAGGCTCCAGCACTCTGGACACCAACGATGACAAATTGTATCCCTTTC
Qy      93 SerArgCysAspMetAspGlyAlaThrLeuCysAspGlyAlaLeuGluLeuArgLeu
Db      375 CAAGAGTTCACATCAAGCGGAGACACCTCTGCGACGTGAGTTGGACGGATTCCACCGG
Qy      113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr
Db      435 GCGGACGAGACGGCGGCGAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGGACGGC
Qy      130 SerSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeuGluValAspGlyMetAla
Db      495 CAGTCGAGTAGTAGC-----CTG
Qy      150 PheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeu
Db      513 TTCACATGCC-----ACACCAATGTC
Qy      170 LeuAspAspGlyGlnGlnAlaSerProGlyHisProGlySerCysGlyAlaGlyAlaPro
Db      534 ATGTGCAAGACTGAACCAACTGAGCCT-----
Qy      190 SerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSer
Db      561 -----TCCATCATGAAACCTGGAAGACGAACTATTATAT
Qy      210 SerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyValLeuPheProSer
Db      600 GACACCAACTATGATGACACAGTATGATTG-----TTGACACGAAACTTTC-----
Qy      230 AspGlyPheArgAspCysValSlys-----
Db      648 -----TCCCGGAGCTCAGATCTCCATGACCAACACACAGCTTCCCTGT
Qy      238 GlyAspProGlyHisGlyValArgValArgGlyAlaArgProArgGlyLeuSerTrpGluTyr
Db      693 GCAGAGTCACCTATATGAAAGAGCAAGACCCCTCCCAAGTCCACACCAAA---
Qy      258 TrpAspCysLeuGlnGlySlysSerTrpHisAlaProArgGlyThrHisLeuTrpGlu
Db      750 -----AACCAACAACCCGAGAGGAGCTCCTATGGGAA
Qy      278 PheIleArgAspIleLeuIleHisProGluLeuAsnGlnGlyLeuMetTrpGluAsn
Db      783 TTCATCGCGACATCTCTGAACCCAGACAAAGCCAGATTATTAATGAAGGAAAC
Qy      298 ArgHisGlnGlyValPheLysPheLeuArgSerGlnAlaValAlaGlnLeuTrpGlyGln
Db      843 CGATCTGAGGGCGCTTCAGGTTCTTGAAATCAAGAGGAGCTGCTAGCTATGGGTTAA
Qy      318 LysLeuLysAsnSerAsnMetTrpGlyLysLeuSerArgAlaMetArgTrpTyrTyr
Db      903 AAGAAAGAAACAACGACGACATGACCTATGAAGAACTCGCGAGCTATGAAATTTACTAC
Qy      338 LysArgGlnIleLeuGlnArgValAspGlyArgArgLeuValTyrTrpPheGlyLysAsn
Db      963 AAAAAGAAATACTGAGCGCTGTGATGAGCAAGAACTGTAATTAATTTGGGAAGAAT
Qy      358 SerSerGlyTrpTrpGlyGlnGlu 365
Db      1023 GCCCGAGATGAGAGAAATGAA 1046

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RESULT 12

US-09-009-913-3

Sequence 3, Application US/0909913

Patent No. 6087485

GENERAL INFORMATION:

APPLICANT: Axy's Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma Related Genes

NUMBER OF SEQUENCES: 339

CORRESPONDENCE ADDRESS:

ADDRESSEE: Bozicevic & Reed, LLP

```

/ STREET: 285 Hamilton Ave, Suite 200
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94301
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FASTSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ FILING DATE: 21-JAN-1998
/ CLASSIFICATION:
/ PRIORITY APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Sherwood, Pamela J
/ REGISTRATION NUMBER: 36,677
/ REFERENCE/DOCKET NUMBER: SEQ-4P
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-327-3231
/ TELEFAX: 650-327-3231
/
/
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 5510 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/
/ US-09-009-913-3
/
/ Alignment Scores:
/ Pred. No.: 6,92e-46 Length: 5510
/ Score: 555.50 Matches: 126
/ Percent Similarity: 51.24 Conservative: 39
/ Best Local Similarity: 39.134 Mismatches: 78
/ Query Match: 26.064 Indels: 79
/ Gaps: 8
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Qy      59 TrpLeuGlyGlnGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyr
Db      356 TGGCATGAATATCATCTCTGATGACGACCAAGTACAGGTGTGGAGTGGCTCCAGCAC
Qy      79 GlnValGlnLysAsnLysTyrTrpAspAlaIleAspPheSerArgCysAspMetAsp
Db      416 CTCCTGACACCAACCAAGCTGATGCCAATTGTATCCCTTCCAAAGATTGCAATCAAC
Qy      99 GlyAlaThrLeuCysAsnGlyAlaLeuGlnGluLeuArgValPheGlyProLeuGly
Db      476 GCGGACACCTCTGCGACATGAGTTTGCAGAGTTCAACCGGCGGACGAGACGGCGGAG
Qy      119 AspGlnLeuHisAlaGlnLeuArgAspLeuThr-----SerSerSerSerArgGlu
Db      536 CAGCTCTCTACAGCAACTTGCAGCATCTGAAAGTGAAGCGCAAGTCAGTATGAC---
Qy      136 LeuSerTrpIleIleGluLeuLeuGluValAspGlyMetAlaPheGlnGlnAlaLeuAsp
Db      593 -----CTGTTCACATGCC-----
Qy      156 ProGlyProPheAspGlnGlySerProPheAlaGlnGlnLeuLeuAspAspGlyGln
Db      605 -----ACACCAATGTCATTGTCAAGACTGAACAA
Qy      176 AlaSerProGlyHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp
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Qy      196 ValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSerGlySer

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Db      644 ---TCATCATGAACCTTGAAAGACGAACTATTATATGACACCAACTATGGTAGC 700
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Db      701 ACAGTAGATTG---TTGACACCAAAACTTTC-----TGC 723
Qy      236 LysLys-----GlyAspProLysHisGly 243
Db      734 CGGGCTCAGATCTCCATGACACCAACCACTTCTCTGTGCAAGTCACTGATATG 793
Qy      244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyLysTrpAspCysLeuGly 263
Db      794 AAAAAGAGAGAAACCCCTGCGCAAGTGCACACCAAA-----832
Qy      264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAspIleLeu 283
Db      833 -----AMGACAAACCGAGAGGAGCTCCTTATGGAAATTCATCCCGCATCTTC 883
Qy      284 IleHisProGluLeuAsnGluLysLeuMetLysTrpGluAsnArgHisGlyValPhe 303
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Qy      324 MetThrTrpGlyLysLeuSerArgAlaMetArgTrpTrpLysArgGluIleLeuGlu 343
Db      1004 ATGACCTATGAAAGCTCAGCCGACTATGATATTAATAAAGAAATATCTGAG 1063
Qy      344 ArgValAspGlyArgArgLysValLysLysPheGlyLysAsnSerSerGlyTrpLysGlu 363
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Qy      364 GluGlu 365
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RESULT 13
US-09-009-913-4
; Sequence 4, Application US/0909913
; Patent No. 6087485
; GENERAL INFORMATION:
; APPLICANT: AxyS Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma Related Genes
; NUMBER OF SEQUENCES: 339
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bozicevic & Reed, LLP
; STREET: 285 Hamilton Ave, Suite 200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/009,913
; FILING DATE: 21-JAN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sherwood, Pamela J
; REGISTRATION NUMBER: 36,677
; REFERENCE/DOCKET NUMBER: SEQ-4P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-327-3231
; TELEFAX: 650-327-3231

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; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5667 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-009-913-4

Alignment Scores:
Pred. No.: 7.22e-46 Length: 5667
Score: 555.50 Matches: 126
Percent Similarity: 51.24% Conservative: 39
Best Local Similarity: 39.13% Mismatches: 78
Query Match: 28.06% Indels: 79
DB: 3 Gaps: 8

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Qy      79 GlnValGluLysAsnLysTrpAspAlaSerAlaIleAspPheSerArgCysAspMetAsp 98
Db      573 CTCCTGACACCAACCAAGCTGATGCTCATTTGATCCCTTCCAAAGATTCGACATCAAC 632
Qy      99 GlyAlaThrLeuLysCysAsnCysAlaLeuGluGluLeuArgLysValPheGlyProLeuGly 118
Db      633 GCGACACACTCTCCAGCATGAGTTTGACAGATTCCACCCGCGCGGACGAGCGCGG 692
Qy      119 AspGlnLeuHisAlaLeuArgAspLeuThr-----SerSerSerSerAspGlu 135
Db      693 CAGCTCTCTACAGCAACTGGACGATCTGAAGTGAACGCGCACTGAGTGAAC--- 749
Qy      136 LeuSerTrpIleIleGluLeuLeuGlyLysAspGlyMetAlaPheGlnGluAlaLeuAsp 155
Db      750 -----CTGTTCCAGTCC-----761
Qy      156 ProGlyProPheAspGlnLysSerProPheAlaGlnLysLeuLeuAspAspGlyGlnGln 175
Db      762 -----ACACAAATGTCATGTCAAGACTGAACAA 791
Qy      176 AlaSerProTrpHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp 195
Db      792 ACTGAGCT-----800
Qy      196 ValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySer 215
Db      801 ---TCCATCATGAACCTCGAAGACGAGAACTATTATATGACACCAACTATGGTAGC 857
Qy      216 AspvAlAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCys 235
Db      858 ACAGTAGATTG---TTGACACCAAAACTTTC-----TGC 890
Qy      236 LysLys-----GlyAspProLysHisGly 243
Db      891 CGGGCTCAGATCTCCATGACACCAACCACTTCTCTGTGCAAGTCACTGATATG 950
Qy      244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyLysTrpAspCysLeuGly 263
Db      951 AAAAAGAGAGAAACCCCTGCGCAAGTGCACACCAAA-----989
Qy      264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAspIleLeu 283
Db      990 -----AAGACAAACCGAGAGGAGCTCATTTATGGAAATTCATCCGCGCATCTTC 1040
Qy      284 IleHisProGluLeuAsnGluLysLeuMetLysTrpGluAsnArgHisGlyGlyValPhe 303
Db      1041 TTAAACCCAGACAAACCCAGATTAATAAATGGAGAACCGAGATCTGAGGCGCTTTC 1100
Qy      304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323

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Qy 344 ArgValAspGlyArgArgLeuValTyrTyrLeuPheGlyLysAsnSerSerGlyTyrPlyGlu 363  
Db 1221 CGTGTGGATGCAAGACGATGCTATATAATTGGGAAGATGCCGAGATGGAGAGAA 1280  
Qy 364 GluGlu 365  
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US-09-020-956-44/C  
Sequence 44, Application US/09020956  
Patent No. 6261562  
GENERAL INFORMATION:  
APPLICANT: Xu, Jianshun  
APPLICANT: Dillon, David C.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
NUMBER OF SEQUENCES: 178  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
City: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/020,956  
FILING DATE: 09-FEB-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.42762  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEO ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 852 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
US-09-020-956-44  
Alignment Scores:  
Pred. No.: 1 86e-43 Length: 852  
Score: 519.50 Matches: 121  
Percent Similarity: 50.97% Conservative: 37  
Best Local Similarity: 39.03% Mismatches: 73  
Query Match: 26.24% Indels: 79  
Gaps: 8  
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Db 790 CCTTTCACAGAGTTGCACATCAACGGCGAGCACTTTGACAGCTGTGAGTTGCAGAGTTTC 731  
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129  
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Qy 130 -----SerSerSerSerAspGluLeuSerTyrPylIleGluLeuGluLysAspGly 147  
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Qy 148 MetAlaPheGlnGlnLysAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167  
Db 649 ---CTGTCCAGTCC-----ACACAC 632  
Qy 168 GluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187  
Db 631 AATGTCAATTGTCAAGCTGACAACTGAGCC----- 599  
Qy 188 AlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSer 207  
Db 598 -----TCCATCATGAAACCTGGAAGACNAAACTAT 566  
Qy 208 HisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPhe 227  
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Qy 356 LysAsnSerSerGlyTyrPlyGluGlu 365  
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RESULT 15  
US-09-030-607-44/C  
Sequence 44, Application US/09030607  
Patent No. 6262245  
GENERAL INFORMATION:  
APPLICANT: Xu, Jianshun  
APPLICANT: Dillon, David C.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
NUMBER OF SEQUENCES: 224  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
City: Seattle  
STATE: WA

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COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,607
FILING DATE: 25-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427G3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-030-607-44

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Alignment Scores:
Pred. No.: 1,86e-43 Length: 852
Score: 519.50 Matches: 121
Percent Similarity: 50.97% Conservative: 37
Best Local Similarity: 39.03% Mismatches: 73
Query Match: 26.24% Indels: 79
DB: 3 Gaps: 8

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US-08-978-217-2 (1-371) x US-09-030-607-44 (1-852)

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DB 850 CAGGTGTGGAGTGGCTCCATCACTTCGACACCAACGAGCTGGATGCAATTGTATC 791
QY 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnGlyAlaLeuGlnLeu 110
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QY 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuAspLeuThr--- 129
DB 730 ACCCGGGCGGACGAGGAGCGGGGCGGAGCTCTCTACGCAACTTGCGCATCTGAACTGG 671
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Job time: 127.561 sec

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 15, 2004, 13:42:48 ; Search time 523.407 Seconds  
(without alignments)  
11515.905 Million cell updates/sec

Title: US-08-978-217-1

Perfect score: 1116  
Sequence: 1 ATGGCTGCAACTGTGAGAT.....TTCTCGAGATCGAAGTGA 1116

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

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Published Applications NA.\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	1116	100.0	1915	9	US-09-964-824A-563
5	1116	100.0	1915	9	US-09-880-107-3420
6	1116	100.0	1915	9	US-09-967-768A-192
7	1116	100.0	1917	9	US-09-922-217-1105
8	1116	100.0	1917	13	US-10-025-380-1105
9	1115.6	100.0	1996	9	US-09-925-301-207
10	1114.4	99.9	1956	16	US-10-264-049-756
11	933	83.6	2269	15	US-10-131-410-64
12	624.4	55.9	626	9	US-09-922-217-853

C 13	624.4	55.9	626	9	US-09-833-263-853	Sequence 853, App
C 14	624.4	55.9	626	13	US-10-025-380-853	Sequence 853, App
C 15	561.4	50.3	563	9	US-09-922-217-944	Sequence 944, App
C 16	561.4	50.3	563	9	US-09-833-263-944	Sequence 944, App
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C 19	499.4	44.7	502	9	US-09-834-753-282	Sequence 282, App
C 20	499.4	44.7	502	9	US-09-339-338-282	Sequence 282, App
C 21	499.4	44.7	502	10	US-09-551-621-282	Sequence 282, App
C 22	499.4	44.7	502	13	US-10-007-805-282	Sequence 282, App
C 23	499.4	44.7	502	14	US-10-076-622-282	Sequence 282, App
C 24	499.4	44.7	502	15	US-10-124-885-282	Sequence 282, App
C 25	455	40.8	499	9	US-09-998-598-2290	Sequence 2290, App
C 26	372	33.3	437	9	US-09-998-598-2216	Sequence 4818, App
C 27	349	31.3	355	9	US-09-867-701-4818	Sequence 3261, App
C 28	236	21.1	275	14	US-10-060-036-3261	Sequence 32, App
C 29	220	19.7	451	9	US-09-998-598-32	Sequence 1953, App
C 30	159	17.8	1435	15	US-10-017-161-1953	Sequence 1601, App
C 31	199	17.8	1435	15	US-10-292-798-1601	Sequence 11873, App
C 32	175.6	15.7	440	9	US-09-960-352-11873	Sequence 1740, App
C 33	174	15.6	174	9	US-09-998-598-1740	Sequence 1081, App
C 34	173.8	15.6	832	16	US-10-240-425-1081	Sequence 44, App
C 35	173.8	15.6	852	9	US-09-759-143-44	Sequence 44, App
C 36	173.8	15.6	852	9	US-09-780-606-44	Sequence 44, App
C 37	173.8	15.6	852	9	US-09-030-606-44	Sequence 44, App
C 38	173.8	15.6	852	9	US-09-822-827-44	Sequence 44, App
C 39	173.8	15.6	852	9	US-09-115-453-44	Sequence 44, App
C 40	173.8	15.6	852	9	US-09-232-880-44	Sequence 44, App
C 41	173.8	15.6	852	9	US-09-895-793-44	Sequence 44, App
C 42	173.8	15.6	852	9	US-09-895-814-44	Sequence 44, App
C 43	173.8	15.6	852	13	US-10-012-896-44	Sequence 44, App
C 44	173.8	15.6	852	14	US-10-010-940-44	Sequence 44, App
C 45	173.8	15.6	852	15	US-10-144-678A-44	Sequence 44, App

#### ALIGNMENTS

RESULT 1  
US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1  
; GENERAL INFORMATION:  
; APPLICANT: John MONAHAN  
; APPLICANT: Manjula GANNAVAPU  
; APPLICANT: Sebastian HOESCH  
; APPLICANT: Subhangti KAMATKAR  
; APPLICANT: Steve G. KOVATS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT  
; APPLICANT: Ami SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLS  
; APPLICANT: Robert C. BAST, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumei ZHAO  
; APPLICANT: Karen GLATT  
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
; FILE REFERENCE: MRI-030  
; FILE REFERENCE: Assessment, Prevention, and Therapy of Ovarian Cancer  
; CURRENT APPLICATION NUMBER: US/10/097,340  
; CURRENT FILING DATE: 2002-03-14  
; PRIOR APPLICATION NUMBER: 60/276,025  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/325,149  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/276,026  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/324,967  
; PRIOR FILING DATE: 2001/09/26  
; PRIOR APPLICATION NUMBER: 60/311,732

;; PRIOR FILING DATE: 2001-08-10  
;; PRIOR APPLICATION NUMBER: 60/325,102  
;; PRIOR FILING DATE: 2001-09-26  
;; PRIOR APPLICATION NUMBER: 60/323,580  
;; PRIOR FILING DATE: 2001-09-19  
;; NUMBER OF SEQ ID NOS: 363  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 74  
;; LENGTH: 1907  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 100.0%; Score 1116; DB 14; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGATTTAGCAATTTTGAACAATCTTCACTGGAGTATACAGC 60  
DB 96 ATGGCTGCAACCTGTGATTTAGCAATTTTGAACAATCTTCACTGGAGTATACAGC 155  
QY 61 TCGGAGACTCCACCTGAGCTCTGTCTCCCTGCTGCAACCTTTGGGGCCGATGACTTG 120  
DB 156 TCGGAGACTCCACCTGAGCTCTGTCTCCCTGCTGCAACCTTTGGGGCCGATGACTTG 215  
QY 121 GTAAGTACCTGAGCAACCCCGAGATGTCAATGGAGGTACAGAAAGCCAGCTGGTTG 180  
DB 216 GTAAGTACCTGAGCAACCCCGAGATGTCAATGGAGGTACAGAAAGCCAGCTGGTTG 275  
QY 181 GGGGAAGAGCCCGAGTCTGTGTGCAAGACGAGTCTTGGAGCTGAGTCACTACCAAGTG 240  
DB 276 GGGGAAGAGCCCGAGTCTGTGTGCAAGACGAGTCTTGGAGCTGAGTCACTACCAAGTG 335  
QY 241 GAGAAGAAAGTACGACGAGGAGCCATTTGATCTTCAAGATGTGATGATGAGGCC 300  
DB 336 GAGAAGAAAGTACGACGAGGAGCCATTTGATCTTCAAGATGTGATGATGAGGCC 395  
QY 301 ACCCTGCAATTTGTGCTTGAAGAGCTGCTGTGCTTTGGGCTCTGAGGAGCAAA 360  
DB 396 ACCCTGCAATTTGTGCTTGAAGAGCTGCTGTGCTTTGGGCTCTGAGGAGCAAA 455  
QY 361 CTTCATGCTCCAGCTGCGAGACCTTCACTTCCAGCTCTTGTATGATGATGATGAT 420  
DB 456 CTTCATGCTCCAGCTGCGAGACCTTCACTTCCAGCTCTTGTATGATGATGATGAT 515  
QY 421 GAGCTGTGAGAGAGATGAGATGAGCTTCCAGAGAGCCCTTAAGCCAGGAGCCCTTGAC 480  
DB 516 GAGCTGTGAGAGAGATGAGATGAGCTTCCAGAGAGCCCTTAAGCCAGGAGCCCTTGAC 575  
QY 481 CAGGGAGAGCCCTTTGCGCAAGAGCTGTGACGACGCTACAGCAAGCCCTTACAC 540  
DB 576 CAGGGAGAGCCCTTTGCGCAAGAGCTGTGACGACGCTACAGCAAGCCCTTACAC 635  
QY 541 CCGGAGAGCTGTGCGGAGAGAGCCCTTCCCTGAGAGCTGTGACGCTCTCACACGAGG 600  
DB 636 CCGGAGAGCTGTGCGGAGAGAGCCCTTCCCTGAGAGCTGTGACGCTCTCACACGAGG 695  
QY 601 ACTGATGCTTCTGAGAGCTCCCACTCTCTGAGATCCGAGTGAAGTGAAGTGAAGT 660  
DB 696 ACTGATGCTTCTGAGAGCTCCCACTCTCTGAGATCCGAGTGAAGTGAAGTGAAGT 755  
QY 661 CCGCATGATGAGCAAGCTTTCCCGAGAGTGTGTTTGTGATCTGCAAGAAAGGGGATCCC 720  
DB 756 CCGCATGATGAGCAAGCTTTCCCGAGAGTGTGTTTGTGATCTGCAAGAAAGGGGATCCC 815  
QY 721 AAGCAGCGGAGCGGAAACGAGGCTCGGCGCCGAAAGCTGAGCAAAAGATCTGAGACTGT 780  
DB 816 AAGCAGCGGAGCGGAAACGAGGCTCGGCGCCGAAAGCTGAGCAAAAGATCTGAGACTGT 875  
QY 781 CTGAGGAGGAGAGAGACAGACGCGCCGAGAGGCAACCACTGTGAGGAGTTCACTCCG 840  
DB 876 CTGAGGAGGAGAGAGACAGACGCGCCGAGAGGCAACCACTGTGAGGAGTTCACTCCG 935

QY 841 GACATCTCATCCACCCGAGCTCAACGAGGCTTATGATGAGAGATGCGCATGAA 900  
DB 936 GACATCTCATCCACCCGAGCTCAACGAGGCTTATGATGAGAGATGCGCATGAA 995  
QY 901 GGGCTCTTAAGTCTCTGGGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAAAAG 960  
DB 996 GGGCTCTTAAGTCTCTGGGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAAAAG 1055  
QY 961 AACGCAATGATGACCTTACAGAGAGCTGAGCCGAGCCATGAGTACTTACTCAACCGGAG 1020  
DB 1056 AACGCAATGATGACCTTACAGAGAGCTGAGCCGAGCCATGAGTACTTACTCAACCGGAG 1115  
QY 1021 ATCTTGAAACGGGTGATGAGCGCGGAGCTGCTTCAAGATTTGGCAAAAACCTCAAGCGG 1080  
DB 1116 ATCTTGAAACGGGTGATGAGCGCGGAGCTGCTTCAAGATTTGGCAAAAACCTCAAGCGG 1175  
QY 1081 TGGAGAGAGAGAGTCTCCGAGAGTCCGAACTGA 1116  
DB 1176 TGGAGAGAGAGAGTCTCCGAGAGTCCGAACTGA 1211

## RESULT 2

US-10-291-808-27  
; Sequence 27, Application US/10291808  
; Publication No. US20030224382A1  
; GENERAL INFORMATION:  
; APPLICANT: McCelland, Michael  
; APPLICANT: Welsh, John  
; APPLICANT: Trenkle, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/10/291,808  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: US/09/300,958  
; PRIOR FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-291-808-27

Query Match 100.0%; Score 1116; DB 15; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGATTTAGCAATTTTGAACAATCTTCACTGGAGTATACAGC 60  
DB 96 ATGGCTGCAACCTGTGATTTAGCAATTTTGAACAATCTTCACTGGAGTATACAGC 155  
QY 61 TCGGAGACTCCACCTGAGCTCTGTCTCCCTGCTGCAACCTTTGGGGCCGATGACTTG 120  
DB 156 TCGGAGACTCCACCTGAGCTCTGTCTCCCTGCTGCAACCTTTGGGGCCGATGACTTG 215  
QY 121 GTAAGTACCTGAGCAACCCCGAGATGTCAATGGAGGTACAGAAAGCCAGCTGGTTG 180  
DB 216 GTAAGTACCTGAGCAACCCCGAGATGTCAATGGAGGTACAGAAAGCCAGCTGGTTG 275  
QY 181 GGGGAAGAGCCCGAGTCTGTGTGCAAGACGAGTCTTGGAGCTGAGTCACTACCAAGTG 240  
DB 276 GGGGAAGAGCCCGAGTCTGTGTGCAAGACGAGTCTTGGAGCTGAGTCACTACCAAGTG 335  
QY 241 GAGAAGAAAGTACGACGAGGAGCCATTTGATCTTCAAGATGTGATGATGATGAGGCC 300  
DB 336 GAGAAGAAAGTACGACGAGGAGCCATTTGATCTTCAAGATGTGATGATGATGAGGCC 395

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QY 301 ACCCTGGAATTGAGCCCTTGAGGAGCTGCGCTGCTGTTGGGCTCTGCGGGAGCA 360
DB 396 ACCCTGGAATTGAGCCCTTGAGGAGCTGCGCTGCTGTTGGGCTCTGCGGGAGCA 455
QY 361 CTCATGAGCCAGCTGAGAGCACTCACTTCAGCTCTTCTGATGAGCTCATGTTGATCAT 420
DB 456 CTCATGAGCCAGCTGAGAGCACTCACTTCAGCTCTTCTGATGAGCTCATGTTGATCAT 515
QY 421 GAGCTCTGAGAGAGATGAGATGAGCTGCTGAGAGAGCCCTAGAGCCAGGGCCCTTTGAC 480
DB 516 GAGCTCTGAGAGAGATGAGATGAGCTGCTGAGAGAGCCCTAGAGCCAGGGCCCTTTGAC 575
QY 481 CAGGGAGAGCCCTTTGAGAGAGAGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 576 CAGGGAGAGCCCTTTGAGAGAGAGAGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 635
QY 541 CCGGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
DB 636 CCGGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 695
QY 601 ACTGAGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
DB 696 ACTGAGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 755
QY 661 CCGAAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 756 CCGAAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 815
QY 721 AAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 816 AAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 875
QY 781 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 876 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 935
QY 841 GACATCTCTATCCACCCGAGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 936 GACATCTCTATCCACCCGAGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 995
QY 901 GGGGCTCTCAAGTTCTCGGCTCCGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 996 GGGGCTCTCAAGTTCTCGGCTCCGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1055
QY 961 AAGAGCAATGAGCTTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 1056 AAGAGCAATGAGCTTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1115
QY 1021 ATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
DB 1116 ATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1175
QY 1081 TGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1116
DB 1176 TGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1211

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; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 101
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-101

Query Match      100.0%; Score 1116; DB 9; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGAGATTGAGCAATTTTACCACTTACAGTGCATGATGAC 60
DB 120 ATGGCTGCAACCTGAGATTGAGCAATTTTACCACTTACAGTGCATGATGAC 179
QY 61 TCGAGAGACTCCAGCTGAGCTCTGTTCCCTGCTGCACTTTGGGCGATGACTTG 120
DB 180 TCGAGAGACTCCAGCTGAGCTCTGTTCCCTGCTGCACTTTGGGCGATGACTTG 239
QY 121 GTAATGACCTTGAAGCAACCCCAATGATGATGAGAGGTAACAGAGAGAGAGAGAG 180
DB 240 GTAATGACCTTGAAGCAACCCCAATGATGATGAGAGGTAACAGAGAGAGAGAGAG 299
QY 181 GGGGAGACAGCCCAAGTTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 300 GGGGAGACAGCCCAAGTTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 359
QY 241 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 360 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 419
QY 301 ACCCTGGAATTGAGCCCTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 420 ACCCTGGAATTGAGCCCTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 479
QY 361 CTCATGAGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
DB 480 CTCATGAGCCAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 539
QY 421 GAGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 540 GAGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 599
QY 481 CAGGAGAGCCCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 600 CAGGAGAGCCCTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 659
QY 541 CCGGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
DB 660 CCGGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
QY 601 ACTGAGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
DB 720 ACTGAGCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 779
QY 661 CCGAAGTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 780 CCGAAGTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 839
QY 721 AAGCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 840 AAGCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 899
QY 781 CCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 900 CCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 959
QY 841 GACATCTCTATCCACCCGAGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 960 GACATCTCTATCCACCCGAGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1019

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RESULT 3
US-09-964-824A-101
; Sequence 101, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28

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QY 901 GGGCTTCAAGTCTTCCGCTCCGAGCTGTGGCCCACTATGGGGCCAAAAGAAAG 960  
DB 1020 GGGCTTCAAGTCTTCCGCTCCGAGCTGTGGCCCACTATGGGGCCAAAAGAAAG 1079  
QY 961 AACAGCAACATGACCTACGAGAAAGCTGACCGGGCCATGAGTACTCTACAAACGGGAG 1020  
DB 1080 AACAGCAACATGACCTACGAGAAAGCTGACCGGGCCATGAGTACTCTACAAACGGGAG 1139  
QY 1021 ATCTGGAACGGGTGATGGCCGGGCACTGCTCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1080  
DB 1140 ATCTGGAACGGGTGATGGCCGGGCACTGCTCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1199  
QY 1081 TGGAGGAGGAGAGAGGTTCTCCAGAGTCGGAACCTGA 1116  
DB 1200 TGGAGGAGGAGAGGTTCTCCAGAGTCGGAACCTGA 1235

RESULT 4  
US-09-964-824A-563  
Sequence 563, Application US/09964824A  
Patent No. US20020102531A1  
GENERAL INFORMATION:  
APPLICANT: Horrigan, Stephen  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE REFERENCE: 689290-73  
CURRENT APPLICATION NUMBER: US/09/964, 824A  
PRIOR FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: US/60/236, 033  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 032  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US/60/236, 028  
NUMBER OF SEQ ID NOS: 583  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 563  
LENGTH: 1915  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-964-824A-563

Query Match 100.0%; Score 1116; DB 9; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTTGCAACCTGTGATTTAGCAACTTTTACCACTACTTCACTGGATGTACAGC 60  
DB 120 ATGGCTTGCAACCTGTGATTTAGCAACTTTTACCACTACTTCACTGGATGTACAGC 179  
QY 61 TCGGAGACTCCACCCCTGGCTCTGTCCCTGCTGCCAAGCTTTGGGGCCGATGACTTG 120  
DB 180 TCGGAGACTCCACCCCTGGCTCTGTCCCTGCTGCCAAGCTTTGGGGCCGATGACTTG 239  
QY 121 GATAGCACTGTAGCAACCCCAAGATGTCTTGGAGGTAACAGAAAGCCAGCTGGTTG 180  
DB 240 GATAGCACTGTAGCAACCCCAAGATGTCTTGGAGGTAACAGAAAGCCAGCTGGTTG 299  
QY 181 GGGGAACAGCCCAAGTCTTGTGTGAAGACGAGGTTTGTGATGTGATCACTTACCAAGTG 240  
DB 300 GGGGAACAGCCCAAGTCTTGTGTGAAGACGAGGTTTGTGATGTGATCACTTACCAAGTG 359  
QY 241 GAGAAGAAACAAGTACGAGCAAGGCGCATTTGACTTCAAGATGTGATGATGGGCC 300  
DB 360 GAGAAGAAACAAGTACGAGCAAGGCGCATTTGACTTCAAGATGTGATGATGGGCC 419  
QY 301 ACCCTTGCAATTTGTGCTTGTGAGAGCTGCTGTGCTTTTGGGCTCTGGGGAGCAAA 360  
DB 420 ACCCTTGCAATTTGTGCTTGTGAGAGCTGCTGTGCTTTTGGGCTCTGGGGAGCAAA 479  
QY 361 CTCATGCCCAGCTGCGAAGCTTCACTTCAAGCTCTTGTATGAGCTCAAGTTGATCAT 420

DB 480 CTCATGCCAGCTGCGAAGCTTCACTTCCAGCTCTTGTATGAGCTCAAGTTGATCAT 539  
QY 421 GAGCTGTGAGAAAGATGAGTGGATGAGCTTTCAGAGAGCCCTAGACCAGGCTTTGAC 480  
DB 540 GAGCTGTGAGAAAGATGAGTGGATGAGCTTTCAGAGAGCCCTAGACCAGGCTTTGAC 599  
QY 481 CAGGGACGCCCTTTTCCCAAGAGCTGTGAGACGAGGTTGACAGAACGCCCTTACAC 540  
DB 600 CAGGGACGCCCTTTTCCCAAGAGCTGTGAGACGAGGTTGACAGAACGCCCTTACAC 659  
QY 541 CCGGAGAGCTGTGAGAGAGAGCCCTCCCTGGAGCTTGAAGTTCACCCGAGAGG 600  
DB 660 CCGGAGAGCTGTGAGAGAGAGCCCTCCCTGGAGCTTGAAGTTCACCCGAGAGG 719  
QY 601 ACTGTGCTTCTCGAGCTCCCACTCTGAGACTCCGATGGAAGTGAACCTGATCTGAT 660  
DB 720 ACTGTGCTTCTCGAGCTCCCACTCTGAGACTCCGATGGAAGTGAACCTGATCTGAT 779  
QY 661 CCCACTGATGGAAGTCTTCCCAAGAGTGTGTTTCTGACTGCAAGAAAGGGGATGCC 720  
DB 780 CCCACTGATGGAAGTCTTCCCAAGAGTGTGTTTCTGACTGCAAGAAAGGGGATGCC 839  
QY 721 AAGCAAGGAGAGGAGAAAGAGGCGGCGCCGAAAGCTGAGCAAAAGATGAGGACTGT 780  
DB 840 AAGCAAGGAGAGGAGAAAGAGGCGGCGCCGAAAGCTGAGCAAAAGATGAGGACTGT 899  
QY 781 CTCGAGGAGAGAGAGAGAGAGAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCG 840  
DB 900 CTCGAGGAGAGAGAGAGAGAGAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCG 959  
QY 841 GACATCTCATCCACCCGAGCTCAAGAGGCTTATGAATGGAGAAATGGCATGAA 900  
DB 960 GACATCTCATCCACCCGAGCTCAAGAGGCTTATGAATGGAGAAATGGCATGAA 1019  
QY 901 GGGCTTCAAGTCTTCCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAAAG 960  
DB 1020 GGGCTTCAAGTCTTCCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAAGAAAG 1079  
QY 961 AACAGCAACATGACCTACGAGAAAGCTGACCGGGCCATGAGTACTCTACAAACGGGAG 1020  
DB 1080 AACAGCAACATGACCTACGAGAAAGCTGACCGGGCCATGAGTACTCTACAAACGGGAG 1139  
QY 1021 ATCTGGAACGGGTGATGGCCGGGCACTGCTCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1080  
DB 1140 ATCTGGAACGGGTGATGGCCGGGCACTGCTCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1199  
QY 1081 TGGAGGAGGAGAGGTTCTCCAGAGTCGGAACCTGA 1116  
DB 1200 TGGAGGAGGAGAGGTTCTCCAGAGTCGGAACCTGA 1235

RESULT 5  
US-09-880-107-3420  
Sequence 3420, Application US/09880107  
Patent No. US20020142981A1  
GENERAL INFORMATION:  
APPLICANT: Horne, Darci T.  
APPLICANT: Vockley, Joseph G.  
APPLICANT: Scherf, Uwe  
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
FILE REFERENCE: 44921-5028-WO  
CURRENT APPLICATION NUMBER: US/09/880, 107  
PRIOR FILING DATE: 2001-06-14  
PRIOR APPLICATION NUMBER: US 60/211, 379  
PRIOR FILING DATE: 2000-06-14  
PRIOR APPLICATION NUMBER: US 60/237, 054  
PRIOR FILING DATE: 2000-10-02  
NUMBER OF SEQ ID NOS: 3950  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 3420  
LENGTH: 1915  
TYPE: DNA

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ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Query Match      100.0%; Score 1116; DB 9; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCACTACTTTCAGTGGAGTACAGC 60
DB 120 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCACTACTTTCAGTGGAGTACAGC 179
QY 61 TCGAGAGACTCCACCCCTGCTCTGTTCCCTGCTGCTGCACTTTTGGGGCGATGACTTG 120
DB 180 TCGAGAGACTCCACCCCTGCTCTGTTCCCTGCTGCTGCACTTTTGGGGCGATGACTTG 239
QY 121 GTACTGACCTTGAGCAACCCCAAGATGTCAATGAGGGTACAGAAAGCCAGCTGGTTG 180
DB 240 GTACTGACCTTGAGCAACCCCAAGATGTCAATGAGGGTACAGAAAGCCAGCTGGTTG 239
QY 181 GGGGAAACAGCCCACTTCTGTGAGAGACGCAAGTTTGAATGAGTCACTACCAAGTG 240
DB 300 GGGGAAACAGCCCACTTCTGTGAGAGACGCAAGTTTGAATGAGTCACTACCAAGTG 359
QY 241 GAGAAGAAAGATGACGAGCGAGCGCAATGACTTCAAGATGTCATGATGAGGCGC 300
DB 360 GAGAAGAAAGATGACGAGCGAGCGCAATGACTTCAAGATGTCATGATGAGGCGC 419
QY 301 ACCCTGTCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGACCA 360
DB 420 ACCCTGTCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGACCA 479
QY 361 CTCATGAGCCAGCTGCGAGACCTTCACTTCACTTCTTGAATGAGTCACTTGGATATT 420
DB 480 CTCATGAGCCAGCTGCGAGACCTTCACTTCACTTCTTGAATGAGTCACTTGGATATT 539
QY 421 GAGCTGTGAGAGAGATGAGCATGGCTTCAAGAGGCCCTTGAAGCCAGGGCCCTTTGAC 480
DB 540 GAGCTGTGAGAGAGATGAGCATGGCTTCAAGAGGCCCTTGAAGCCAGGGCCCTTTGAC 599
QY 481 CAGGGCAGCCCTTTTGGCCAGAGCTGTGAGCAGCGGTGACAGCAAGCCAGCCCTTACAC 540
DB 600 CAGGGCAGCCCTTTTGGCCAGAGCTGTGAGCAGCGGTGACAGCAAGCCAGCCCTTACAC 659
QY 541 CCGGAGCTGTGAGCGAGAGGCCCTTCCCTGAGCTCTGAGCTTCTCAACCGCAGGG 600
DB 660 CCGGAGCTGTGAGCGAGAGGCCCTTCCCTGAGCTCTGAGCTTCTCAACCGCAGGG 719
QY 601 ACTGATGCTTCTGAGAGCTCCCACTCTCAAGCTCCGATGAGAGTGAAGTGAAGCTGGAT 660
DB 720 ACTGATGCTTCTGAGAGCTCCCACTCTCAAGCTCCGATGAGAGTGAAGTGAAGCTGGAT 779
QY 720 ACTGATGCTTCTGAGAGCTCCCACTCTCAAGCTCCGATGAGAGTGAAGTGAAGCTGGAT 779
DB 661 CCACTGATGAGAGCTTCTCCAGAGATGTTTGTGATGTCAGAGAGGGGATCCC 720
DB 780 CCACTGATGAGAGCTTCTCCAGAGATGTTTGTGATGTCAGAGAGGGGATCCC 839
QY 721 AAGCAGCGAAGCGGAAACGAGCGGCGCCCGGAAAGCTGAGCAAAAGTACTGGACTGT 780
DB 840 AAGCAGCGAAGCGGAAACGAGCGGCGCCCGGAAAGCTGAGCAAAAGTACTGGACTGT 899
QY 840 AAGCAGCGAAGCGGAAACGAGCGGCGCCCGGAAAGCTGAGCAAAAGTACTGGACTGT 899
DB 781 CTGAGGGGCAAGAAAGACAGAGCGGCCCAAGAGGCAACCACTGTGAGGATTCATCCGG 840
QY 900 CTGAGGGGCAAGAAAGACAGAGCGGCCCAAGAGGCAACCACTGTGAGGATTCATCCGG 959
DB 841 GACATCTCATTCACCCGGAGCTCAACGAGGGCTCATGAAAGTGGAGAAATCGGCATGAA 900
DB 960 GACATCTCATTCACCCGGAGCTCAACGAGGGCTCATGAAAGTGGAGAAATCGGCATGAA 1019
QY 901 GGGCTTTTCAAGTTCTGCGCTCCGAGGCTGTGCGCACTATGAGGCGCAAAAGAAAG 960
DB 1020 GGGCTTTTCAAGTTCTGCGCTCCGAGGCTGTGCGCACTATGAGGCGCAAAAGAAAG 1079
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QY 961 AACAGCAACATGACCTTACAGAGAGCTGAGCCGGCCATGAGTACTTACAAACCGGAG 1020
DB 1080 AACAGCAACATGACCTTACAGAGAGCTGAGCCGGCCATGAGTACTTACAAACCGGAG 1139
QY 1021 ATCTTGGAACGGGTGAGATGGCCGGCGACCTGCTCAAGTTTGGCAAAACTCAAGCGAC 1080
DB 1140 ATCTTGGAACGGGTGAGATGGCCGGCGACCTGCTCAAGTTTGGCAAAACTCAAGCGAC 1199
QY 1081 TGGAGAGAGAGAGGTTCTCCAGAGTCCGAACTGA 1116
DB 1200 TGGAGAGAGAGAGGTTCTCCAGAGTCCGAACTGA 1235

RESULT 6
US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967, 768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Query Match      100.0%; Score 1116; DB 9; Length 1915;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCACTACTTTCAGTGGAGTACAGC 60
DB 120 ATGGCTGCAACCTGTGAGATTAGCAATTTTATGCACTACTTTCAGTGGAGTACAGC 179
QY 61 TCGAGAGACTCCACCCCTGCTCTGTTCCCTGCTGCTGCACTTTTGGGGCGATGACTTG 120
DB 180 TCGAGAGACTCCACCCCTGCTCTGTTCCCTGCTGCTGCACTTTTGGGGCGATGACTTG 239
QY 121 GTACTGACCTTGAGCAACCCCAAGATGTCAATGAGGGTACAGAAAGCCAGCTGGTTG 180
DB 240 GTACTGACCTTGAGCAACCCCAAGATGTCAATGAGGGTACAGAAAGCCAGCTGGTTG 239
QY 181 GGGGAAACAGCCCACTTCTGTGAGAGACGCAAGTTTGAATGAGTCACTACCAAGTG 240
DB 300 GGGGAAACAGCCCACTTCTGTGAGAGACGCAAGTTTGAATGAGTCACTACCAAGTG 359
QY 241 GAGAAGAAAGATGACGAGCGAGCGCAATGACTTCTCAAGATGTCATGATGAGGCGC 300
DB 360 GAGAAGAAAGATGACGAGCGAGCGCAATGACTTCTCAAGATGTCATGATGAGGCGC 419
QY 301 ACCCTGTCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGACCA 360
DB 420 ACCCTGTCAATTTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGACCA 479
QY 361 CTCATGAGCCAGCTGCGAGACCTTCACTTCACTTCTTGAATGAGTCACTTGGATATT 420
DB 480 CTCATGAGCCAGCTGCGAGACCTTCACTTCACTTCTTGAATGAGTCACTTGGATATT 539
QY 421 GAGCTGTGAGAGAGATGAGCATGGCTTTCAGAGAGCCCTTGAAGCCAGGGCCCTTTGAC 480
DB 540 GAGCTGTGAGAGAGATGAGCATGGCTTTCAGAGAGCCCTTGAAGCCAGGGCCCTTTGAC 599
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QY	481	CAGGCGACCCCTTTGGCCAGGAGTGTGTGACACAGCGTACAGCAAGCCAGCCCTTACAC	540
Db	600	CAGGCGACCCCTTTGGCCAGGAGTGTGTGACACAGCGTACAGCAAGCCAGCCCTTACAC	659
QY	541	CCCCGACGCTGTGTGCGCAGAGCCCCCTTCCCTGTGACGCTTGTGACGTCGACGAGG	600
Db	660	CCCCGACGCTGTGTGCGCAGAGCCCCCTTCCCTGTGACGCTTGTGACGTCGACGAGG	719
QY	601	ACTGGTGTCTTCGGAGCTCCCACTCCCTCAAGCTCCGGTGGAGAAGTACGTGACCTGTAT	660
Db	720	ACTGGTGTCTTCGGAGCTCCCACTCCCTCAAGCTCCGGTGGAGAAGTACGTGACCTGTAT	779
QY	661	CCCACTGATGCGAAGCTCTTCCCAACGCGATGTGTTTGTGATCTGCMAAGAGGGGATCCC	720
Db	780	CCCACTGATGCGAAGCTCTTCCCAACGCGATGTGTTTGTGATCTGCMAAGAGGGGATCCC	839
QY	721	AAGCAGCGGGAACCGGAACGAGGCGGCGCCCGAAGACTGAGCMAAGATATCGGACCTGT	780
Db	840	AAGCAGCGGGAACCGGAACGAGGCGGCGCCCGAAGACTGAGCMAAGATATCGGACCTGT	899
QY	781	CTCGAGGCGCAAGAAAGAGCAGACGCGCCACAGAGCACCTGTGGAGTTCATCCCG	840
Db	900	CTCGAGGCGCAAGAAAGAGCAGACGCGCCCGAAGACTGAGCMAAGATATCGGACCTGT	959
QY	841	GACATCTCATTCACCCCGGAGCTCAACGAGGGCTCATGAATGTGGAGAAATCGGCATGAA	900
Db	960	GACATCTCATTCACCCCGGAGCTCAACGAGGGCTCATGAATGTGGAGAAATCGGCATGAA	1019
QY	901	GGCGCTTTCAGGTTCTCGCGCTCCGAGGCTGTGTGCGCCAACTATGGGGCCAAAAGAAAAG	960
Db	1020	GGCGCTTTCAGGTTCTCGCGCTCCGAGGCTGTGTGCGCCAACTATGGGGCCAAAAGAAAAG	1079
QY	961	AACAGCAACATGACCTTACGAGAGCTGAGCGCGGCATGAGGTATTAACAAACGAGAG	1020
Db	1080	AACAGCAACATGACCTTACGAGAGCTGAGCGCGGCATGAGGTATTAACAAACGAGAG	1139
QY	1021	ATCTCTGAAACGGGTGTGATGTGCGCGGACCTCGTCTAACAAATTGTGCAAAAACCTCAACGCGC	1080
Db	1140	ATCTCTGAAACGGGTGTGATGTGCGCGGACCTCGTCTAACAAATTGTGCAAAAACCTCAACGCGC	1199
QY	1081	TGGAAGAGGAAAGAGTCTTCCAGAGTGGGAACCTGA	1116
Db	1200	TGGAAGAGGAAAGAGTCTTCCAGAGTGGGAACCTGA	1235

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RESULT 7
US-09-922-217-1105
Sequence 1105, Application US/09922217
Patent No. US20020076414A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Lodes, Michael J.
APPLICANT: Secretet, Heather
APPLICANT: Benson, Darin R.
APPLICANT: Meagher, Madeline Joy
APPLICANT: Stolk, John A.
APPLICANT: Wang, Tonglong
APPLICANT: Jiang, Yugu
APPLICANT: Smith, Carole Lynn
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aijun
APPLICANT: Clapper, Jonathan D.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.471C13
CURRENT APPLICATION NUMBER: US/09/922.217
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEQ ID NOS: 1124
SOFTWARE: PasteSeq for Windows Version 4.0
SEQ ID NO 1105
LENGTH: 1917
TYPE: DNA

```

Query Match	100.0%	Score 1116	DB 9	Length 1917
Best Local Similarity	100.0%	Pred. No. 0		
Matches 1116	Conservative 0	Mismatches 0	Indels 0	Gaps 0
OY	1	ATGGCTGCAACCTCTGAGATTAGCAACATTTTATGCAACTCTTCACTGACATGTATACAGC	60	
Db	122	ATGGCTGCAACCTCTGAGATTAGCAACATTTTATGCAACTCTTCACTGACATGTATACAGC	181	
OY	61	TCGGAGCATTCACCTCTGGCCCTCTGTTCCCTCTGTCACCTTTGGGGCCGATGACTTG	120	
Db	182	TCGGAGGACCTCCACCTCTGGCCCTCTGTTCCCTCTGTCACCTTTGGGGCCGATGACTTG	241	
OY	121	GTACTGACCCCTGAGCAACCCCCAGATGCAATGAGGGTACAGAGAGGCCAGCTGGTGTG	180	
Db	242	GTACTGACCCCTGAGCAACCCCCAGATGCAATGAGGGTACAGAGAGGCCAGCTGGTGTG	301	
OY	181	GGGGAAACGCCCCAGTTCTGTGTCAGACGACAGTTCTGGACTGGAATCAGTACCAAGTG	240	
Db	302	GGGGAAACGCCCCAGTTCTGTGTCAGACGACAGTTCTGGAATCAGTACCAAGTG	361	
OY	241	GAGAAAGAACAGTACGACGCAAGGCCATTAATCTTCAAGATGTGACATGAGATGGCGCC	300	
Db	362	GAGAAAGAACAGTACGACGCAAGGCCATTAATCTTCAAGATGTGACATGAGATGGCGCC	421	
OY	301	ACCCTCTGCAATTTGTGCCCTTGAAGAGCTGCGTGTGCTTTGGGCGCTCTGGGGACCA	360	
Db	422	ACCCTCTGCAATTTGTGCCCTTGAAGAGCTGCGTGTGCTTTGGGCGCTCTGGGGACCA	481	
OY	361	CTCCATGCCCCAGCTGCGAGACTTCATCTTCCAGCTCTTCTGATGAGCTCAGTTGATCAT	420	
Db	482	CTCCATGCCCCAGCTGCGAGACTTCATCTTCCAGCTCTTCTGATGAGCTCAGTTGATCAT	541	
OY	421	GAGCTGCGGAGAGAGATGGATGGACCTTCCAGAGAGCCCTAGACCCAGAGGCCCTTTGAC	480	
Db	542	GAGCTGCGGAGAGAGATGGATGGACCTTCCAGAGAGCCCTAGAGCCAGAGGCCCTTTGAC	601	
OY	481	CAGGGCAGCCCCCTTTGGCCAGAGACTCTGAGCAGCGGTACGCAAGCCAGCCCCCTACAC	540	
Db	602	CAGGGCAGCCCCCTTTGGCCAGAGACTCTGAGCAGCGGTACGCAAGCCAGCCCCCTACAC	661	
OY	541	CCCGGCAAGCTGTGGCGCAGAGAGCCCCCTCCCTGTGGAGCTTGAAGTCTCCACCGCAGGG	600	
Db	662	CCCGGCAAGCTGTGGCGCAGAGAGCCCCCTCCCTGTGGAGCTTGAAGTCTCCACCGCAGGG	721	
OY	601	ACTGATCTTCTCGAGAGCTCCCATCTCTCAGACTCCAGGTGGAATGACGTGACCTGGAT	660	
Db	722	ACTGATCTTCTCGAGAGCTCCCATCTCTCAGACTCCAGGTGGAATGACGTGACCTGGAT	781	
OY	661	CCCATCTGAGGCAAGCTCTTCCCGAGCGATGTTTTGTGACTGCAAGAGAGGGGGAATCCC	720	
Db	782	CCCATCTGAGGCAAGCTCTTCCCGAGCGATGTTTTGTGACTGCAAGAGAGGGGGAATCCC	841	
OY	721	AAGACCGGGAAGCGGGAACAGAGCGCGGCCCGGAAGCTGAGCAAGAGATCTGGGACTGT	780	
Db	842	AAGACCGGGAAGCGGGAACAGAGCGCGGCCCGGAAGCTGAGCAAGAGATCTGGGACTGT	901	
OY	781	CTCGAGGCAAGAGACCAAGCAGCGCCCAAGAGGCCCACTCTGTGGGATTTATCCCG	840	
Db	902	CTCGAGGCAAGAGAGACCAAGCAGCGCCCAAGAGGCCCACTCTGTGGGATTTATCCCG	961	
OY	841	GACATCTCTCATCCACCCGGAGACTCAACGAGGGCTCTATGAAGTGGAGAAATCCGCATGAA	900	
Db	962	GACATCTCTCATCCACCCGGAGACTCAACGAGGGCTCTATGAAGTGGAGAAATCCGCATGAA	1021	
OY	901	GGCGCTTCAAGTCTCTGCGCTCGAGAGCTGTGGCCCAATATGAGGCGCAAAAGAAAG	960	
Db	1022	GGCGCTTCAAGTCTCTGCGCTCGAGAGCTGTGGCCCAATATGAGGCGCAAAAGAAAG	1081	
OY	961	AACGACAACATGACCTTACGAGAGCTGAGCCGGGCATGAGGTACTATCAAAACGGAG	1020	



Db 1082 AACGACAACTGACCTACGAGAACTGACCGGGCCATGAGTACTACAAACGGGAG 1141  
Qy 1021 ATCTGGAACGGGTGATGTCGCGCCGCACTGCTACAAAGTTGGCAAAACTAAAGCGC 1080  
Db 1142 ATCTGGAACGGGTGATGTCGCGCCGCACTGCTACAAAGTTGGCAAAACTAAAGCGC 1201  
Qy 1081 TGGAGAGAGAGAGGTTCTCCAGAGTCGGAACCTGA 1116  
Db 1202 TGGAGAGAGAGAGGTTCTCCAGAGTCGGAACCTGA 1237

## RESULT 8

US-10-025-380-1105.  
; Sequence 1105, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongcong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Derrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025.380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105  
; LENGTH: 1917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-025-380-1105

Query Match 100.0%; Score 1116; DB 13; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCGTGCACCTGTGATGATTAACCAATTTTACGAACTACTTCATGCGATGTACAGC 60  
Db 122 ATGCGTGCACCTGTGATGATTAACCAATTTTACGAACTACTTCATGCGATGTACAGC 181  
Qy 61 TCGGAGACTCCACCTGCGCTGTTCCTCCCTGCTGCACTTTGGGGCCGATGACTTG 120  
Db 182 TCGGAGACTCCACCTGCGCTGTTCCTCCCTGCTGCACTTTGGGGCCGATGACTTG 241  
Qy 121 GTACTACCTTGAGCAACCCCGATGTCTATTGAGGGTACAGAGAAAGCCAGCTGGTTG 180  
Db 242 GTACTACCTTGAGCAACCCCGATGTCTATTGAGGGTACAGAGAAAGCCAGCTGGTTG 301  
Qy 181 GGGGAAACAGCCCAAGTTGTGAGAGAGCGCAAGTCTGAGACGTGACACTCAAGTG 240  
Db 302 GGGGAAACAGCCCAAGTTGTGAGAGAGCGCAAGTCTGAGACGTGACACTCAAGTG 361  
Qy 241 GAGAGAAACAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGATGGCGC 300  
Db 362 GAGAGAAACAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGATGGCGC 421  
Qy 301 ACCCTCTGCAATTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGGACCAA 360  
Db 422 ACCCTCTGCAATTGTGCTTGAAGAGCTGCTGTGCTTTTGGGCTCTGGGGGACCAA 481

Qy 361 CTCATGCCCAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGATCAT 420  
Db 482 CTCATGCCCAGCTGCGAGACCTCACTTCAGCTCTTGTGATGAGCTCAGTTGATCAT 541  
Qy 421 GAGCTCTGAGAGAGATGAGCATGAGCTTTCAGAGAGCCCTTAGACCCAGGCGCTTTGAC 480  
Db 542 GAGCTCTGAGAGAGATGAGCATGAGCTTTCAGAGAGCCCTTAGACCCAGGCGCTTTGAC 601  
Qy 481 CAGGAGAGCCCTTTTCCAGAGAGCTGCTGAGACGAGGTCAAGAACCCAGCCCTTAC 540  
Db 602 CAGGAGAGCCCTTTTCCAGAGAGCTGCTGAGACGAGGTCAAGAACCCAGCCCTTAC 661  
Qy 541 CCGGAGAGCTGAG 600  
Db 662 CCGGAGAGCTGAG 721  
Qy 601 ACTGAGCTTCTTGAAGCTTCCCACTCTGAGACTCCGAGTGAAGTGAAGTGAAGTGAAG 660  
Db 722 ACTGAGCTTCTTGAAGCTTCCCACTCTGAGACTCCGAGTGAAGTGAAGTGAAGTGAAG 781  
Qy 661 CCGAAGTGAAG 720  
Db 782 CCGAAGTGAAG 841  
Qy 721 AAGCAAGGAG 780  
Db 842 AAGCAAGGAG 901  
Qy 781 CTGAG 840  
Db 902 CTGAG 961  
Qy 841 GAGATCTCATCAACCCGAGAGCTCAACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900  
Db 962 GAGATCTCATCAACCCGAGAGCTCAACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1021  
Qy 901 GAGGCTTCAAGTCTCTGAGCTCCGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960  
Db 1022 GAGGCTTCAAGTCTCTGAGCTCCGAGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1081  
Qy 961 AACGACAACTGACCTACGAGAAAGCTGAGCCGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020  
Db 1082 AACGACAACTGACCTACGAGAAAGCTGAGCCGAGAGAGAGAGAGAGAGAGAGAGAGAG 1141  
Qy 1021 ATCTGGAACGGGTGATGTCGCGCCGCACTGCTACAAAGTTGGCAAAACTAAAGCGC 1080  
Db 1142 ATCTGGAACGGGTGATGTCGCGCCGCACTGCTACAAAGTTGGCAAAACTAAAGCGC 1201  
Qy 1081 TGGAGAGAGAGAGGTTCTCCAGAGTCGGAACCTGA 1116  
Db 1202 TGGAGAGAGAGAGGTTCTCCAGAGTCGGAACCTGA 1237

## RESULT 9

US-09-925-301-207  
; Sequence 207, Application US/09925301  
; Patent No. US20020052308A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA106  
; CURRENT APPLICATION NUMBER: US/09/925.301  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 207  
; LENGTH: 1996  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-925-301-207

Query Match 100.0%; Score 1115.6; DB 9; Length 1996;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1115; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGGCTGCAACCTGTGATTTAGCAATTTTATGCACTTCTGAGTGTATGAC 60
DB 141 ATGGCTGCAACCTGTGATTTAGCAATTTTATGCACTTCTGAGTGTATGAC 200
QY 61 TGGAGAGCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 201 TGGAGAGCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 260
QY 121 GTACTGACCTTGAGCAACCCCGATGTCTATTGGAGGTTACAGAGAGCCAGCTGTTG 180
DB 261 GTACTGACCTTGAGCAACCCCGATGTCTATTGGAGGTTACAGAGAGCCAGCTGTTG 320
QY 181 GGGGAAACAGCCCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 321 GGGGAAACAGCCCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 380
QY 241 GAGAGAAACAGTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 381 GAGAGAAACAGTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 440
QY 301 ACCCTGCAATTTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 441 ACCCTGCAATTTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 500
QY 361 CTCATGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
DB 501 CTCATGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 560
QY 421 GAGCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 561 GAGCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 620
QY 481 CAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 621 CAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 680
QY 541 CCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
DB 681 CCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 740
QY 601 ACTGAGTCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
DB 741 ACTGAGTCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 800
QY 661 CCGCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 801 CCGCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 860
QY 721 AAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 861 AAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 920
QY 781 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 921 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 980
QY 841 GACATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 981 GACATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1040
QY 901 GGCCTCTTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
DB 1041 GGCCTCTTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1100
QY 961 AACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 1101 AACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1160
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QY 1021 ATCTTGAAACGGGTGATGCGGCGAGCTGCTTACAGTGTGGCAAAATCTACGGCG 1080
DB 1161 ATCTTGAAACGGGTGATGCGGCGAGCTGCTTACAGTGTGGCAAAATCTACGGCG 1220
QY 1081 TGGAGAGAGAGAGAGTCTCCAGAGTCCGAGACTGA 1116
DB 1221 TGGAGAGAGAGAGAGTCTCCAGAGTCCGAGACTGA 1256
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## RESULT 10

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US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US2004000579A1
; GENERAL INFORMATION:
; APPLICANT: Birst et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264, 049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756
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Query Match 99.9%; Score 1114.4; DB 16; Length 1956;  
Best Local Similarity 99.6%; Pred. No. 0;  
Matches 1112; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGGCTGCAACCTGTGATTTAGCAATTTTATGCACTTCTGAGTGTATGAC 60
DB 161 ATGGCTGCAACCTGTGATTTAGCAATTTTATGCACTTCTGAGTGTATGAC 220
QY 61 TGGAGAGCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 221 TGGAGAGCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 280
QY 121 GTACTGACCTTGAGCAACCCCGATGTCTATTGGAGGTTACAGAGAGCCAGCTGTTG 180
DB 281 GTACTGACCTTGAGCAACCCCGATGTCTATTGGAGGTTACAGAGAGCCAGCTGTTG 340
QY 181 GGGGAAACAGCCCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 341 GGGGAAACAGCCCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 400
QY 241 GAGAGAAACAGTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 401 GAGAGAAACAGTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 460
QY 301 ACCCTGCAATTTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 461 ACCCTGCAATTTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 520
QY 361 CTCATGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
DB 521 CTCATGACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 580
QY 421 GACCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 581 GACCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 640
QY 481 CAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 641 CAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 700
QY 541 CCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
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Db 701 CCGGCGAGCTGTGGCGAGAGACCCCTCCCTCCGCGAGCTGTGACGTCTCCACGCGAGGG 760  
Qy 601 ACTGGTCTCTCTGGAGCTCCCACTCTGAGACTCCGGTGAAGTGACTGTGACCTGTGAT 660  
Db 761 ACTGGTCTCTCTGGAGCTCCCACTCTGAGACTCCGGTGAAGTGAAGTGAAGTGAAGTGA 820  
Qy 661 CCGACTGATGGCAAGCTCTCCCGAGGATGTGTTTGTGATCTGCAAGTGAAGGAGGATCCC 720  
Db 821 CCGACTGATGGCAAGCTCTCCCGAGGATGTGTTTGTGATCTGCAAGTGAAGGAGGATCCC 880  
Qy 721 AACACGGAAGCGGAAACGAGCGGCGCCCGAAAGCTGAGCAAAAGTGAAGTGAAGTGAAGT 780  
Db 881 AACACGGAAGCGGAAACGAGCGGCGCCCGAAAGCTGAGCAAAAGTGAAGTGAAGTGAAGT 940  
Qy 781 CTGAGGGGCAAGAAAGAGCAAGCAAGCGCCCAAGAGGCACTCTGTGGAGTTCTATCCGG 840  
Db 941 CTGAGGGGCAAGAAAGAGCAAGCAAGCGCCCAAGAGGCACTCTGTGGAGTTCTATCCGG 1000  
Qy 841 GACATCTCTCAACCCGAGGCTCAACGAGGAGCTCAAGTGAAGTGAAGTGAAGTGAAGTGA 900  
Db 1001 GACATCTCTCAACCCGAGGCTCAACGAGGAGCTCAAGTGAAGTGAAGTGAAGTGAAGTGA 1060  
Qy 901 GGGGTCTTCAAGTCTCTGCGCTCGAGGCTGTGGCCCACTATGGGCGCAAAAGAAAAG 960  
Db 1061 GGGGTCTTCAAGTCTCTGCGCTCGAGGCTGTGGCCCACTATGGGCGCAAAAGAAAAG 1120  
Qy 961 AACAGCAACTGACCTTACGAGAAAGTGAAGCGGCGCACTGAGTGAAGTGAAGTGAAGTGA 1020  
Db 1121 AACAGCAACTGACCTTACGAGAAAGTGAAGCGGCGCACTGAGTGAAGTGAAGTGAAGTGA 1180  
Qy 1021 ATCTGGAAGAGGAGTGAAGTGAAGCGGCGCACTGAGTGAAGTGAAGTGAAGTGAAGTGA 1080  
Db 1181 ATCTGGAAGAGGAGTGAAGTGAAGCGGCGCACTGAGTGAAGTGAAGTGAAGTGAAGTGA 1240  
Qy 1081 TGAAGAGAGAGAGTGTCTCAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTG 1116  
Db 1241 TGAAGAGAGAGAGTGTCTCAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTGCAAGTCTG 1276

RESULT 11  
US-10-131-410-64  
; Sequence 64, Application US/10131410  
; Publication No. US20030235915A1  
; GENERAL INFORMATION:  
; APPLICANT: SPECHT, THOMAS  
; APPLICANT: HINZMANN, BERND  
; APPLICANT: SCHMITT, ARMIN  
; APPLICANT: PILARSKY, CHRISTIAN  
; APPLICANT: DAHL, EDGAR  
; APPLICANT: ROSENTHAL, ANDRE  
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST  
; FILE REFERENCE: SCH-1763  
; CURRENT APPLICATION NUMBER: US/10/131,410  
; PRIOR FILING DATE: 2002-04-25  
; PRIOR APPLICATION NUMBER: 09/646,673  
; PRIOR FILING DATE: 2000-09-20  
; PRIOR APPLICATION NUMBER: PCT/DE99/00908  
; PRIOR FILING DATE: 1999-03-19  
; NUMBER OF SEQ ID NOS: 202  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 64  
; LENGTH: 2269  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-131-410-64

Query Match 83.6%; Score 933; DB 15; Length 2269;  
Best Local Similarity 99.3%; Pred. No. 7.5e-265;  
Matches 958; Conservative 0; Mismatches 5; Indels 2; Gaps 2;  
Qy 152 TGAAGGTAAGAGAGGCAAGCTGTGGGGGAACAGCCCAAGTCTGTGCAAGACGC 211

Db 4 TGGCCCTTGAGAGAGGCGAGCTGTGGGGGAACAGCCCAAGTCTGTGTCAGAGA-GC 62  
Qy 212 AGGTTTGAAGTGTGATCAGTACCAAGTGAAGAAAGTGAAGTGAAGTGAAGTGAAGTGA 271  
Db 63 AGGTTTGAAGTGTGATCAGTACCAAGTGAAGAAAGTGAAGTGAAGTGAAGTGAAGTGA 122  
Qy 272 ACTTCTCAGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 331  
Db 123 ACTTCTCAGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 182  
Qy 332 GTCTGTCTTTTGGGCTTGGGGGACCAATCCATGCGGAGCTGCGAGACTTCACTTCA 391  
Db 183 GTCTGTCTTTTGGGCTTGGGGGACCAATCCATGCGGAGCTGCGAGACTTCACTTCA 242  
Qy 392 GCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 451  
Db 243 GCTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 302  
Qy 452 AGGAGGCGCTAGACCCAGGGGCTTTGACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 511  
Db 303 AGGAGGCGCTAGACCCAGGGGCTTTGACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 362  
Qy 512 ACAGCGGTGAGCAAGGCGAGGCGCTTACCAACCCCGGAGCTGTGGCGAGAGGCGGCTCC 571  
Db 363 ACAGCGGTGAGCAAGGCGAGGCGCTTACCAACCCCGGAGCTGTGGCGAGAGGCGGCTCC 422  
Qy 572 CTGGCACTCTGACGTCTTCAACCGAGGAGCTGTGTCTTCTGTGAGTCTTCACTCTCA 631  
Db 423 CTGGCACTCTGACGTCTTCAACCGAGGAGCTGTGTCTTCTGTGAGTCTTCACTCTCA 481  
Qy 632 ACTCGGTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 691  
Db 482 ACTCGGTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 541  
Qy 692 GTTTTGTGATCTGCAAGAGGAGGATCCCAAGCAGGAGGAGGAGGAGGAGGAGGAGGAG 751  
Db 542 GTTTTGTGATCTGCAAGAGGAGGATCCCAAGCAGGAGGAGGAGGAGGAGGAGGAGGAG 601  
Qy 752 GAAAGCTGAGCAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 811  
Db 602 GAAAGCTGAGCAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 661  
Qy 812 GAGGCAACCACTGTGGAGTTCATCCGGGACATCTTCAACCCGGAGCTCAAGAG 871  
Db 662 GAGGCAACCACTGTGGAGTTCATCCGGGACATCTTCAACCCGGAGCTCAAGAG 721  
Qy 872 GCCTCATGAAGTGGAGAAATCCGATGAAGGCGTCTTCAAGTCTCGCGCTCGAGGCTG 931  
Db 722 GCCTCATGAAGTGGAGAAATCCGATGAAGGCGTCTTCAAGTCTCGCGCTCGAGGCTG 781  
Qy 932 TGGCCCACTATGTGGGCGCAAAAGAAAGACAGCACTGACCTTCAAGAGCTGAGCC 991  
Db 782 TGGCCCACTATGTGGGCGCAAAAGAAAGACAGCACTGACCTTCAAGAGCTGAGCC 841  
Qy 992 GGGCCATGAGGATCTTCAAAAGGAGATCTTGAAGGAGTGAAGGAGTGAAGGAGTGAAG 1051  
Db 842 GGGCCATGAGGATCTTCAAAAGGAGATCTTGAAGGAGTGAAGGAGTGAAGGAGTGAAG 901  
Qy 1052 TCTACAGTGTGGCAAAACTCAAGCGGCTGAGAGGAGAGGAGTCTTCAAGTCTGCA 1111  
Db 902 TCTACAGTGTGGCAAAACTCAAGCGGCTGAGAGGAGAGGAGTCTTCAAGTCTGCA 961  
Qy 1112 ACTGA 1116  
Db 962 ACTGA 966

RESULT 12  
US-09-922-217-853/c  
; Sequence 853, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:

```

APPLICANT: Xu, Jiangchun
APPLICANT: Lodes, Michael J.
APPLICANT: Secrist, Heather
APPLICANT: Benson, Darin R.
APPLICANT: Meagher, Madeleine Joy
APPLICANT: Stolk, John A.
APPLICANT: Wang, Tongtong
APPLICANT: Jiang, Yuguang
APPLICANT: Smith, Carole Lynn
APPLICANT: King, Gordon E.
APPLICANT: Wang, Aljun
APPLICANT: Clapper, Jonathan D.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.471C13
CURRENT APPLICATION NUMBER: US/09/922,217
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEQ ID NOS: 1124
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 853
LENGTH: 626
TYPE: DNA
ORGANISM: Homo sapiens
US-09-922-217-853

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US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-853

Query Match      55.9%; Score 624.4; DB 13; Length 626;
Best Local Similarity 99.8%; Pred. No. 7e-174;
Matches 625; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 695 TTGCTGACCTGCAAGAAAGGGGATCCCAAGCAGGAAAGCGGAGCCCGCGAA 754
DB 86 TTCTGACCTGCAAGAAAGGGGATCCCAAGCAGGAAAGCGGAGCCCGCGAA 27
QY 755 AGCTGACCAAGAGTACTGGGACTGT 780
DB 26 AGCTGACCAAGAGTACTGGGACTGT 1

RESULT 15
US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Query Match      50.3%; Score 561.4; DB 9; Length 563;
Best Local Similarity 99.8%; Pred. No. 2.7e-155;
Matches 562; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db	143	TGGAAGTGA	CGTGA	CCCTG	ATCCCA	CTGATG	GCAAGCTCTT	CCCCAG	CGATG	TTTCG	84
QY	699	TGACTGCA	GAAGAGG	GGATCC	CAAGCA	CGGAA	AGCGGA	ACGAG	CCCGCC	CGAAAGCT	758
Db	83	TGACTGCA	GAAGAGG	GGATCC	CAAGCA	CGGAA	AGCGGA	ACGAG	CCCGCC	CGAAAGCT	24
QY	759	GAGCAAA	GAGTACT	TGGGACT	GTCTC	781					
Db	23	GAGCAAA	GAGTACT	TGGGACT	GTCTC	1					

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Job time : 528.407 secs